



Transformational Government Framework Primer Version 1.0

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Abstract:

This Primer is intended to serve as an introduction to and detailed overview of the “Transformational Government Framework” (TGF) - a practical “how to” standard

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for the design and implementation of an effective program of technology-enabled change at national, state or local government level.

It also covers the Framework's rationale, purpose, scope, and intended use.

The Framework is a managed process of ICT-enabled change in the public sector, which puts the needs of citizens and businesses at the heart of that process and which achieves significant and transformational impacts on the efficiency and effectiveness of government.

The Primer is in three main parts:

- Part I, including an **Introduction** and **Overview**, sets out the context in which the TGF has been produced, its purpose, and the principal users at whom the Framework is aimed.
- Part II describes the **Transformational Government Framework** itself, including the conformance criteria by which users of the Framework may determine if they are conformant.
- Part III provides a set of **Guidance Notes** providing further information to users of the TGF on how they can implement it in practice.

Status:

This document was last revised or approved by the OASIS Transformational Government Framework TC on the above date. The level of approval is also listed above. Check the "Latest version" location noted above for possible later revisions of this document.

Technical Committee members should send comments on this document to the Technical Committee's email list. Others should send comments to the Technical Committee by using the "[Send A Comment](#)" button on the Technical Committee's web page at <http://www.oasis-open.org/committees/tgf/>.

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Part I: Introduction to the Framework

Part I covers:

- The **context** and historical background for Transformational Government;
- The **definition** of Transformational Government in this context;
- The **purpose** of the Transformational Government Framework (TGF);
- The **audience**, intended primary and secondary users, of the Framework;
- An **overview** with top-level description of the key components of the TGF with context on why each is important.

Context

All around the world, governments at national, state, and local levels face huge pressure to do “more with less”. Whether their desire is: to raise educational standards to meet the needs of a global knowledge economy; to help our economies adjust to financial upheaval; to lift the world out of poverty when more than a billion people still live on less than a dollar a day; to facilitate the transition to a sustainable, inclusive, low-carbon society; to reduce taxation; or to cut back on public administration; every government faces the challenge of achieving their policy goals in a climate of increasing public expenditure restrictions.

Responding effectively to these challenges will mean that governments need to deliver change which is transformational rather than incremental.

During much of the last two decades, technology was heralded as providing the key to deliver these transformations. Now that virtually every government is an “e-Government” - with websites, e-services and e-Government strategies proliferating around the world, even in the least economically developed countries - it is now clear that Information and Communication Technologies (ICT) are no “silver bullet”. The reality of many countries' experience of e-Government has instead been duplication of ICT expenditure, wasted resources, no critical mass of users for online services, and limited impact on core public policy objectives.

An increasing number of governments and institutions are now starting to address the much broader and more complex set of cultural and organizational changes which are needed if ICT is to deliver significant benefits in the public sector. Countries such as the UK, Canada and Australia have all recently published strategies which shift decisively away from “e-Government” towards a much more radical focus on transforming the whole relationship between the public sector and users of public services. In the same vein, the European Commission has updated and published its ‘European Interoperability Framework’ (EIF)¹ and several US agencies are looking to update and consolidate the ‘Federal Enterprise Architecture’ (FEA)² into a new ‘Unified Government Enterprise Architecture Framework’ (UGEAF).

We call this process: **Transformational Government**

¹ European Interoperability Framework (EIF) for European public services, see http://ec.europa.eu/isa/strategy/doc/annex_ii_eif_en.pdf

² Federal Enterprise Architecture, see <http://www.whitehouse.gov/omb/e-gov/fea/>

36 Defining Transformational Government

37 The definition of Transformational Government used here and in the Framework is

38 **Transformational Government**

39 *A managed process of ICT-enabled change in the public sector, which puts the needs*
40 *of citizens and businesses at the heart of that process and which achieves significant*
41 *and transformational impacts on the efficiency and effectiveness of government.*

42 This definition deliberately avoids describing some perfect “end-state” for government. That is not
43 the intent of the Transformational Government Framework. All governments are different: the
44 historical, cultural, political, economic, social and demographic context within which each
45 government operates is different, as is the legacy of business processes and technology
46 implementation from which it starts. So the Transformational Government Framework is not a “one-
47 size-fits-all” prescription for what a government should look like in future.

48 Rather, the focus is on the **process** of transformation: how a government can build a new way of
49 working which enables it rapidly and efficiently to adapt to changing citizen needs and emerging
50 political and market priorities. In the words of one of the earliest governments to commit to a
51 transformational approach: “... the vision is not just about transforming government through
52 technology. It is also about making government transformational through the use of technology”³,

53 A full understanding of this definition of Transformational Government can also be assisted by
54 focusing on the four major ways in which Transformational Government programs differ from
55 traditional e-Government programs:

- 56 • They take a whole-of-government view of the relationship between the public sector and the
57 citizen or business user
- 58 • They include initiatives to e-enable the frontline of public services: that is, staff involved in direct
59 personal delivery of services such as education and healthcare - rather than just looking at
60 transactional services which can be e-enabled on an end-to-end basis
- 61 • They take a whole-of-government view of the most efficient way of managing the cost base of
62 government
- 63 • They focus less on service customers as passive recipients of services and more with citizens and
64 businesses as owners of and participants in the creation of public services.

65 Each of these defining aspects of Transformational Government is explored in more detail below.

66 *Transforming services around the citizen and business user*

67 Most governments are structured around a set of vertically-integrated silos or stovepipes - agencies,
68 departments, ministries. By and large, it is these silos which the Governments of developed countries
69 have spent billions of dollars “e-enabling” since the 1990s. However, this is an ICT investment
70 strategy which is fundamentally not customer-focused, because the needs of citizens, businesses and
71 others cut across the organisational structures and hierarchies of government. It has inevitably
72 resulted in low levels of take-up for e-services. Governments in developed countries are now
73 grappling with the legacy of thousands of fragmented, silo-focused websites: more than 270,000 in
74 the US public sector, 9,000 in Germany, and 3,000 in the UK. An increasing number of governments

³ See the UK Government’s white paper “Transformational Government – enabled by technology”, Cabinet Office, 2005

are now seeking to make a fundamental strategic shift, towards a holistic, customer-centred approach, driven at the whole-of-government level.

This shift includes, in leading countries, a move to a customer-centric “one-stop service” delivered over multiple channels.

“One-stop service” as used in the TGF does not imply that all government services need to be brought together in one physical place or website. Typically, a one-stop service brings together the majority of content and services used by the majority of people, leaving more specialist services to engage with their customers either through service-specific channels or through one-stop services focused on specific clusters or sectors of customer need

e-Enabling the frontline

Traditional e-Government has focused on e-enabling transactional services and providing online content. The great majority of public sector staff and expenditure is not however involved in such services, but rather in “front line” delivery: teachers, healthcare workers, police, court officials, emergency response teams, etc. Leading governments are beginning to understand how the work of such front line staff can be transformed through the use of real-time knowledge management and mobile workflow applications.

Empowering Stakeholders

People’s experience of new technologies is shaped by the best that the private sector has to offer globally and - increasingly - through the ability to co-create content and services as individuals or in peer-to-peer networks. They will demand ever greater interactivity and ownership in their relationship with public services. Transformational Government programs embrace this. Where traditional e-Government programs focused on the user as “the customer”, Transformational Government enhances the relationship between government, citizen, and business on a richer, more reciprocated, and more empowering basis.

Cross-government efficiency

The silo-based approach to ICT investment typical of much e-Government has not only resulted in “un-customer-centric” services (as discussed above), but also in duplication and inefficiency. Governments have “reinvented the wheel” in ICT terms - over and over again - with different agencies each:

- maintaining their own databases, even for universal data sets such as customer identity, addresses and so forth;
- building bespoke applications for e-service functions common to all or many agencies (such as payments in and out, eligibility, notification, and authentication), as well as for common business processes such as HR and Financial Management; and
- doing so in ways which not only duplicate expenditure, but which also will not inter-operate with other agencies - making it more difficult and expensive to move towards inter-agency collaboration in future.

A key focus of Transformational Government is therefore to move towards a service-oriented and building-block approach to ICT and back-office service architecture across all parts of government - reaping efficiency gains while at the same time enabling better, more customer-focused service

delivery. As “cloud computing” gains traction and momentum, this approach opens up even greater scope to achieve large-scale efficiency savings while simultaneously improving organizational agility.

Purpose of the Transformational Government Framework

Delivering this degree of change is not straight-forward for government. Indeed, government faces unique challenges in delivering transformational change, notably:

- the unparalleled breadth and depth of its service offering;
- the fact that it provides a universal service, engaging with the whole population rather than picking and choosing its customers;
- structures, governance, funding & culture which are all organized around specific business functions, not around meeting customer needs in a holistic way.

The time is now right to set out a clear standardized framework within which governments can overcome these challenges to deliver genuinely transformational ICT-enabled change in the public sector. Against the background, the purpose of the Transformational Government Framework is

Transformational Government Framework: purpose

In the increasingly common situation of governments being expected to deliver better and more services for less cost whilst maintaining high-level oversight and governance, the Transformational Government Framework provides a framework for designing and delivering an effective program of technology-enabled change at all levels of government.

Target audience for the Transformational Government Framework

The Transformational Government Framework (TGF) is intended primarily to meet the needs of:

- Political and administrative leaders responsible for shaping public sector reform and e-Government strategies and policies (at national, state/regional and city/local levels);
- Senior executives in industry who wish to partner with and assist governments in the transformation of public services and to ensure that the technologies and services which the private sector provides can have optimum impact in terms of meeting public policy objectives
- Service and technology solution providers to the public sector.

Secondary audiences for the Transformational Government Framework include:

- Leaders of international organisations working to improve public sector delivery, whether at a global level (e.g. World Bank, United Nations) or a regional one (e.g. European Commission, ASEAN⁴, IADB⁵)
- Professional bodies that support industry sectors by the development and maintenance of common practices, protocols, processes and standards to facilitate the production and operation of services and systems within the sector, where the sector needs to interact with government processes and systems.
- Academic and other researchers working in the field of public sector reform.
- Civil society institutions engaged in debate on how technology can better enable service transformation.

⁴ The Association of Southeast Asian Nations

⁵ The Inter-American Development Bank

Overview of the Transformational Government Framework

There are four main components to the Framework:

- Guiding Principles
- Delivery Frameworks
- Critical Success Factors and
- A Benefits Realisation Framework

Component 1: Guiding Principles for Transformation

As discussed above, a “one-size-fits-all” approach to public sector reform does not work. Nevertheless, there are some guiding principles which 10-15 years of experience with e-enabled government around the world suggests are universal. They are based on the experience of many OASIS member organizations working with governments of all kinds, all around the world, and they form the heart of the Framework.

In the Transformational Government Framework, we use the term “principle” to mean an enduring statement of values which can be used on a consistent basis to steer business decision making over the long term.

The principles used in the TGF are detailed in Part II below.

Component 2: Service Delivery Processes

The TGF includes four major delivery processes within government, all of which need refocusing in a customer-centric way in order to deliver genuinely transformational impact:

- business management,
- customer management,
- channel management, and
- technology management based on the principles of service-oriented architecture.

Part II of the Primer below describes frameworks for each of these areas, and Part III gives further guidance on how to implement them.

Component 3: Critical Success Factors

Programs and projects which seek to deliver Transformational Government face significant risks to successful delivery. Typically, these risks are not related to the technology itself – which is largely mature and proven – but rather to business and cultural changes. Such changes are needed within government to deliver the business management, customer management and channel management transformations described in Component 3 of the TGF.

However, there is now an increasing body of research which seeks to understand why some ICT-enabled transformation programs succeed and why others fail. The TGF therefore includes nine Critical Success Factors that reflect and respond to the findings of such research, validated with OASIS members around the world. These Critical Success Factors need to be taken on board by any government seeking to develop and deliver an effective Transformational Government program.

Component 4: Benefits Realisation Framework

The Benefits Realisation Framework is needed to ensure that the Transformation Government program ultimately delivers all of its intended benefits and impacts in practice. Logically, the design and delivery of a Benefits Realisation Strategy is a part of the Business Management task, and is a core responsibility for the Transformational Government Leadership and the collaborative stakeholder governance model described in the TGF Business Management Framework. It is of such vital importance however that it is highlighted as a distinct component of the overall Framework.

ICT projects in government (and indeed in the private sector) do not automatically deliver benefits. Governments historically have fallen into two pitfalls which have hindered full benefits realisation:

- **Failure to pro-actively manage the downstream benefits after an individual ICT project has been completed.** Often, ICT projects are seen as “completed” once the technical implementation is initially operational. In order to reap the full projected benefits (efficiency savings, customer service improvements etc.), on-going management is essential, often involving significant organizational and cultural changes. A study for the European Commission⁶ calculated that, as a rule of thumb, organizational change accounts for 55% of the full costs of e-Government projects in Europe, while ICT only accounts for 45%. Yet these organisational change costs are often not fully factored in or delivered, resulting in a failure to maximize the potential benefits of the ICT investments.
- **Failure at a whole-of-Government level to undertake the restructuring of the public labour market to take advantage of new efficiencies.** Effective delivery of e-Government services – both externally in service delivery to citizens and businesses and internally in modernising the operations of government – opens up the potential to reduce significantly the cost of government. As the cost of delivering government services falls, so governments need to plan and implement the necessary restructuring of the public sector labour market to realize efficiency benefits in the traditional paper-based channels. These efficiency savings can then either be returned to the tax payer in the form of lower taxes, or recycled into priority front-line public services such as health and education. A study by the OECD in 2006⁷ showed that this “whole-of-government” approach to efficiency savings had until that point been a feature of only a few countries, notably Canada, the UK and Finland. Increasingly though, financial pressures are forcing governments to focus on this issue.

The Transformational Government Framework does not seek to specify in detail what benefits and impacts a Transformational Government program should seek to achieve – that is a matter for each individual government. However, the TGF does set out a best practice approach to benefits realisation.

⁶ Source: e-Government Economics Project

⁷ IT Outlook 2006, OECD

Part II: The Transformational Government Framework

In the increasingly common situation of governments being expected to deliver better and more services for less cost whilst maintaining high-level oversight and governance, the Transformational Government Framework provides a framework for designing and delivering an effective program of technology-enabled change at all levels of government.

The Transformational Government Framework can be seen schematically below, made up of four high-level components:

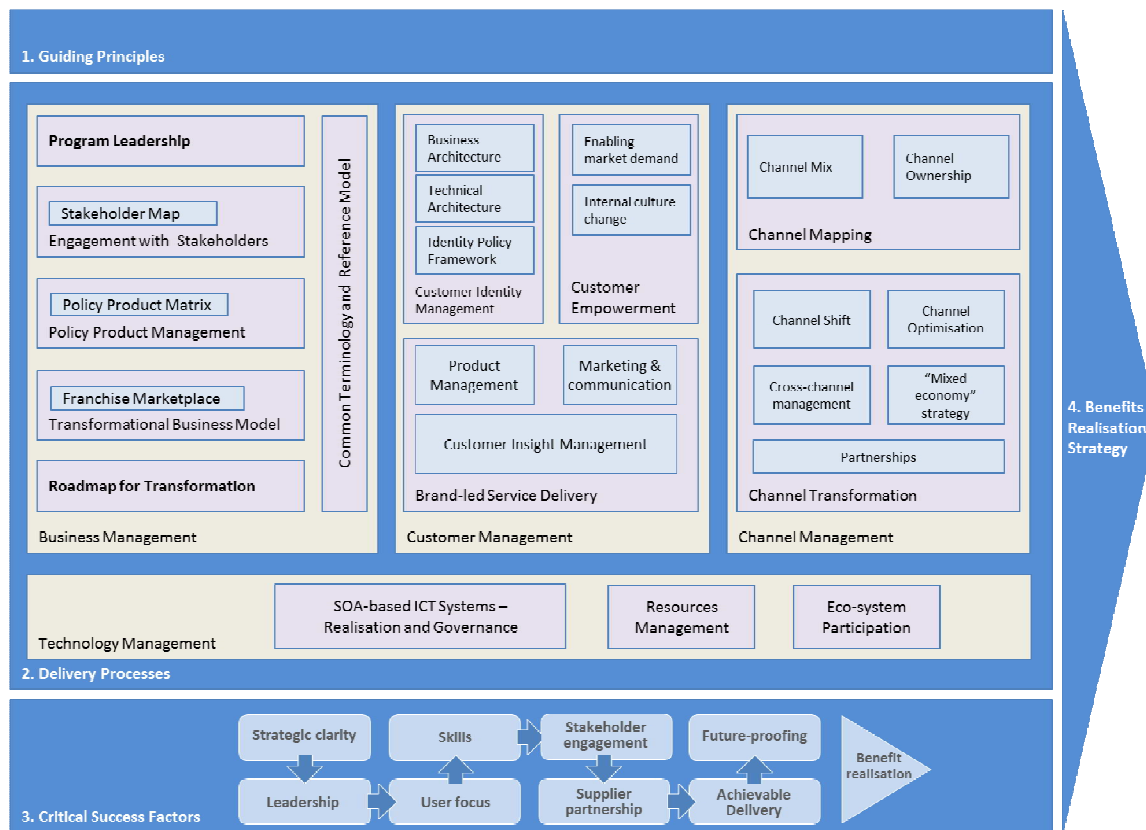


Figure 1: The overall framework

Each of these components is described in more detail below. These components, together with the main concepts that they encompass, are expressed in a more formal structure as a set of "patterns" in the related "Core Patterns" of the TGF Pattern Language [TGF-PL-Core].

Component 1: Guiding Principles

The TGF Guiding Principles are set out below, and must be used by any Transformational Government program conforming to the Framework. These principles together represent an enduring statement of values which the **Leadership** for a Transformational Government program should adopt and use consistently as a basis to steer business decision-making throughout the conception, development, implementation and follow-up of that program. These are explicitly *declaratory* statements of principle (“We believe...”) that reflect the desired commitment of the program Leadership as well as indicating the expectations from all **Stakeholders**.

We believe in detailed and segmented understanding of our citizen and business customers

- These customers should be owned at the whole-of-government level
- Decisions should be based upon the results of research rather than assumptions being made about what customers think
- Real-time, event-level understanding of citizen and business interactions with government should be developed

We believe in services built around customer needs, not organisational structure

- Customers should be provided with a “one-stop service” experience in their dealings with government, built around their needs (such as accessibility)
- Government should not be continually restructured in order to achieve this - instead “customer franchises” should be created that sit within the existing structure of government and act as change agents
- Services should be delivered across multiple channels using Service-Oriented Architecture (SOA) principles to join it all up, reduce infrastructure duplication, and encouraging customers into lower cost channels where appropriate
- Organisational and business change must be addressed before money is spent on technology
- A cross-government strategy should be built for common citizen and business data sets (e.g. name, address) and common customer applications (e.g. authentication, payments, notifications)

We believe that transformation is done with citizens and businesses, not to them

- All stakeholders should be engaged directly in service design and delivery
- Customers should be given the technology tools that enable them to create public value themselves
- People should be given ownership and control of their personal data - and all non-personally identifiable data held by government should be freely open for reuse and innovation by third parties

We believe in growing the market for transformed services

- Service transformation plans should be integrated with an effective digital inclusion strategy to build access to and demand for e-services across society
- Partnerships should be built with other market players (in the private, voluntary and community sectors) in recognition of their significant influence on customer attitudes and behaviour and enable the market and others to work with government to deliver jointly-owned objectives.

We believe in managing and measuring key critical success factors:



Figure 2: The nine Critical Success Factors

These nine factors are covered in Component 2 of the TGF.

Component 2: Delivery Processes

Delivering the principles outlined in Component 1, in line with the Critical Success Factors detailed in Component 2, involves re-inventing every stage of the service delivery process. The Transformational Government Framework identifies four main **delivery processes**, each of which must be managed in a government-wide and customer-centric way in order to deliver effective transformation:

- Business Management
- Customer Management
- Channel Management
- Technology Management

A high-level map of these delivery processes and how their constituent elements interact is illustrated in summary below. The following sections then look in more detail at each of the four delivery processes, setting out the best practices which should be followed in order to ensure conformance with the Transformational Government Framework.

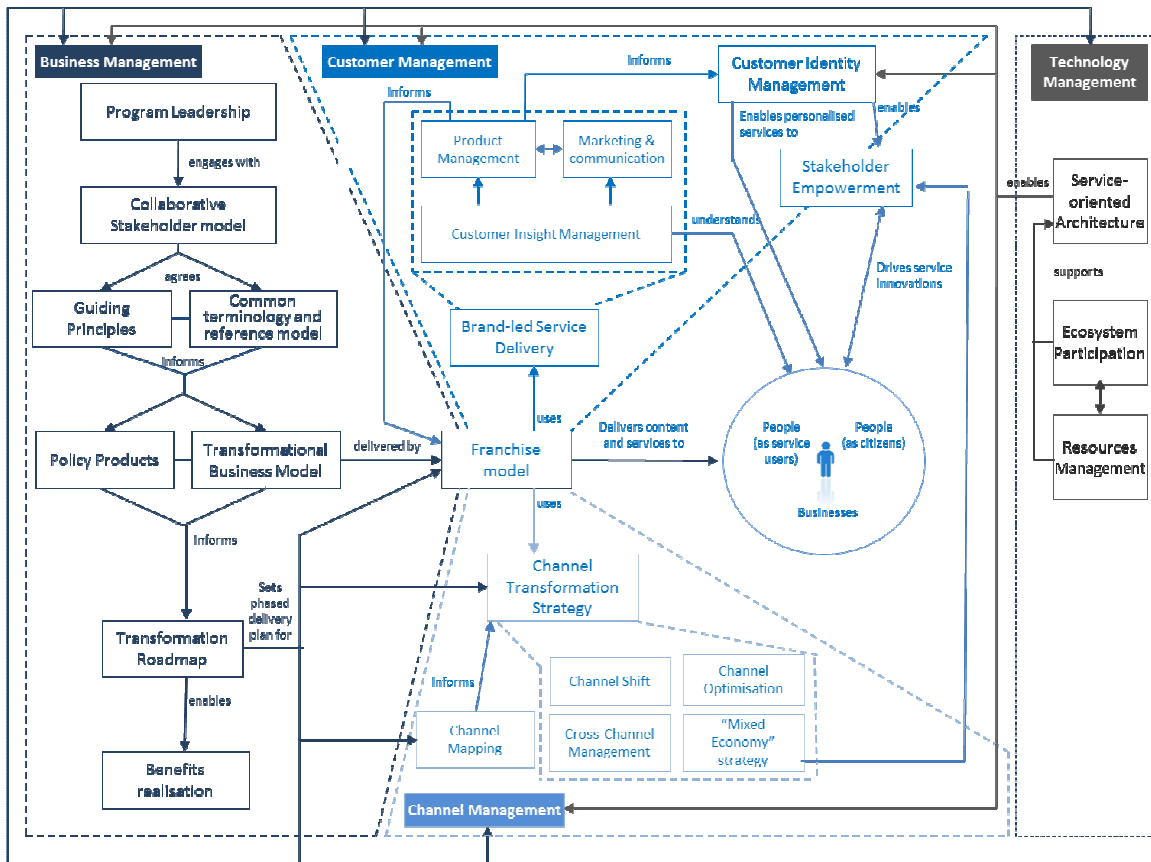


Figure 3: Relationships between the four Delivery Processes for Transformational Government

Business Management Framework

The Transformational Government Framework identifies six key aspects of business management which must be tackled at the whole-of-government level:

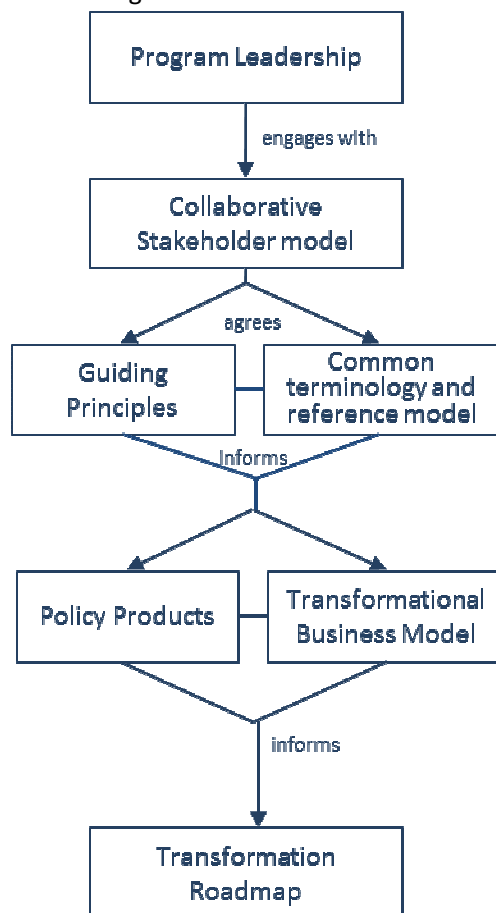


Figure 4: Overview of the Business Management Framework

- **Transformational Government leadership:** the key people and governance structures needed to develop and implement a Transformational Government program;
- **A collaborative Stakeholder Governance Model:** the process by which all key stakeholders are identified, engaged and buy-in to the transformation program;
- **A common terminology and Reference Model:** ensuring that all stakeholders have a clear, consistent and common understanding of the key concepts involved in Transformational Government; how these concepts relate to each other; how they can be formally modelled; and how such models can be leveraged and integrated into new and existing information architectures;
- **A Transformational Business Model:** a new virtual business layer within government, focused round the needs of citizens and businesses (the “Franchise Marketplace”), which enables the existing silo-based structure of government to collaborate effectively in understanding and meeting user needs;

- 317 • The **development and management of Policy Products**: these documents formally define
318 government-wide goals for achieving government transformation and thus constitute the
319 documented commitment of any conformant agency to the transformational process;
320 • A **Roadmap for Transformation**: giving a four to five year view of how the program will be
321 delivered, with explicit recognition of priorities and trade-offs between different elements of the
322 program.

In line with [TGF-PL-Core], any conformant implementation of the TGF Business Management Framework:	
MUST have Leadership which involves:	
– Clear accountability at both the political and administrative levels	
– Deployment of formal program management disciplines	
– A clearly identified mix of leadership skills	
– Engagement of a broad-based leadership team across the wider government.	
MUST demonstrate engagement with stakeholders	
MUST agree and use a common terminology	
MUST create a Policy Product Map using the matrix as a tool to identify the Policy Products required	
MUST have a Transformational Business Model	
SHOULD consider the Franchise Marketplace as part of that model	
MUST address skills issues	
MUST establish a supplier partnership	
MUST have a phased Roadmap for Transformation	

- 323 Further guidance on how to implement this process is given in Part III (a) of the Primer.
324

Customer Management Framework

There are three key parts to the TGF Customer Management Framework:

- **Brand-led Service Delivery:** a user-focused framework for ensuring that:
 - Detailed *insight* is gathered into citizen and business needs
 - This insight informs a **brand-led product management process** covering all stages of government service design and delivery
 - The brand values for Transformational Government then drive all aspects of **marketing and communications** for government services;
- **Identity Management**⁸: the business architecture, technical architecture, and customer-centric identity model needed to enable secure and joined-up services which citizens and businesses will trust and engage with; and
- **Stakeholder Empowerment:** the internal cultural changes and external market-enabling actions which enable governments to engage with citizens and businesses as active co-creators of public services, rather than their passive recipients.

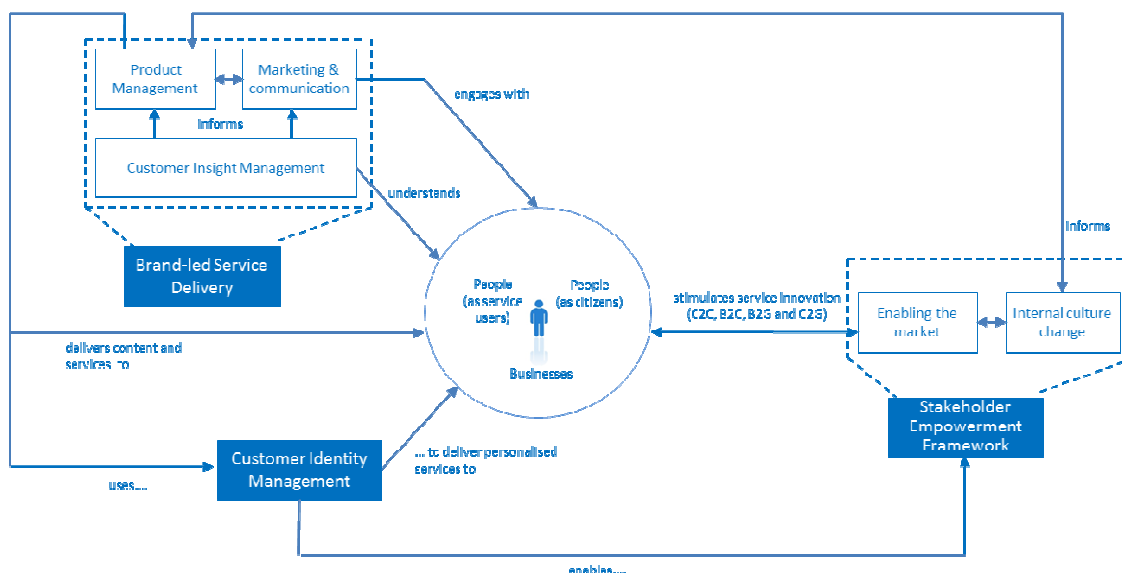


Figure 5: Overview of the Customer Management Framework

In line with [TGF-PL-Core], any conformant implementation of the TGF Customer Management Framework:

MUST have a Brand-led **Service Delivery Strategy**, which is agreed and managed at a whole-of-government level and which addresses:

- Customer Insight;
- Product Management;
- Marketing and communication;

MUST have a **Customer Identity Management Framework**, which:

- uses a federated business model;

⁸ 'Identity Management' is correctly termed 'Identity Information Management' as identity itself is not technically managed but intrinsic to us as humans. It is often shortened to Identity Management, which will be used throughout.

- uses a service-oriented IT architecture;
 - is customer-centric, giving customers control, choice and transparency over personal data;
- MUST** have a **Stakeholder Empowerment Framework**, which encourages and enables service innovation in the Citizen-to-Citizen, Business-to-Citizen, and Citizen-to-Government sectors.

Further guidance on how to implement this process is given in Part III (b) of this TGF Primer.

Channel Management Framework

The two key parts of the Channel Management Framework are:

- **Channel Mapping:** a clear audit of what channels are currently used to deliver government services. The TGF Channel Mapping approach includes an analysis of these channels across two key dimensions: which delivery channels are being used ('channel mix') and who owns them ('channel ownership').
- **Channel Transformation Strategy:** building a new channel management approach centred around the needs and behaviour of citizens and businesses. The key concerns of such an approach include:
 - Channel Optimization;
 - Channel Shift;
 - Cross-Channel Management; and
 - development of a "Mixed Economy" in service provision through private and voluntary sector intermediaries.

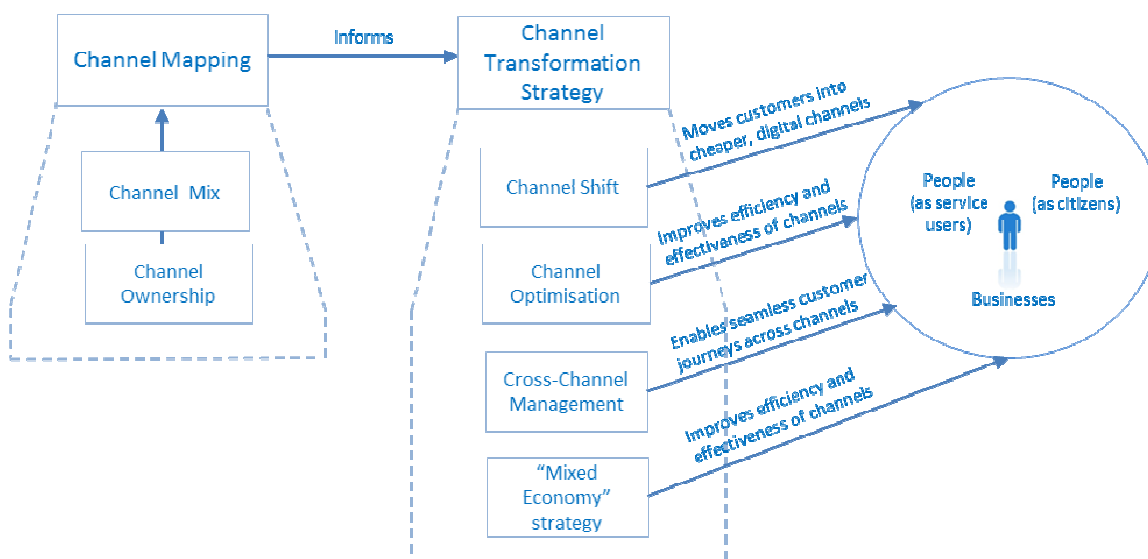


Figure 6: Overview of the Channel Management Framework

In line with [TGF-PL-Core], any conformant implementation of the Channel Management Framework:
MUST have a clear mapping of existing channels , and their cost structures
MUST have a Channel Transformation Strategy which addresses the following elements:
– Shifting service users into lower cost, digital channels;
– Optimising the cost and performance of each channel, including through use of benchmarking;
– Improving cross-channel management, with the aim of providing a seamless user experience across different channels;
– Developing a thriving mixed economy in the delivery of government services by private and voluntary sector intermediaries.

358 Further guidance on how to implement this process is given in Part III (c) of this TGF Primer.

359 Technology Management Framework

360 The elements of the TGF Technology Management Framework are as follows:

- 361 • Resources Management: the explicit identification and management of all information and
362 technology resources;
- 363 • Ecosystem Participation: a clear model and understanding of the stakeholders, actors and
364 systems that comprise the overall service ecosystem and their relationships to each other;
- 365 • Realisation and governance of ICT systems based on SOA principles

366

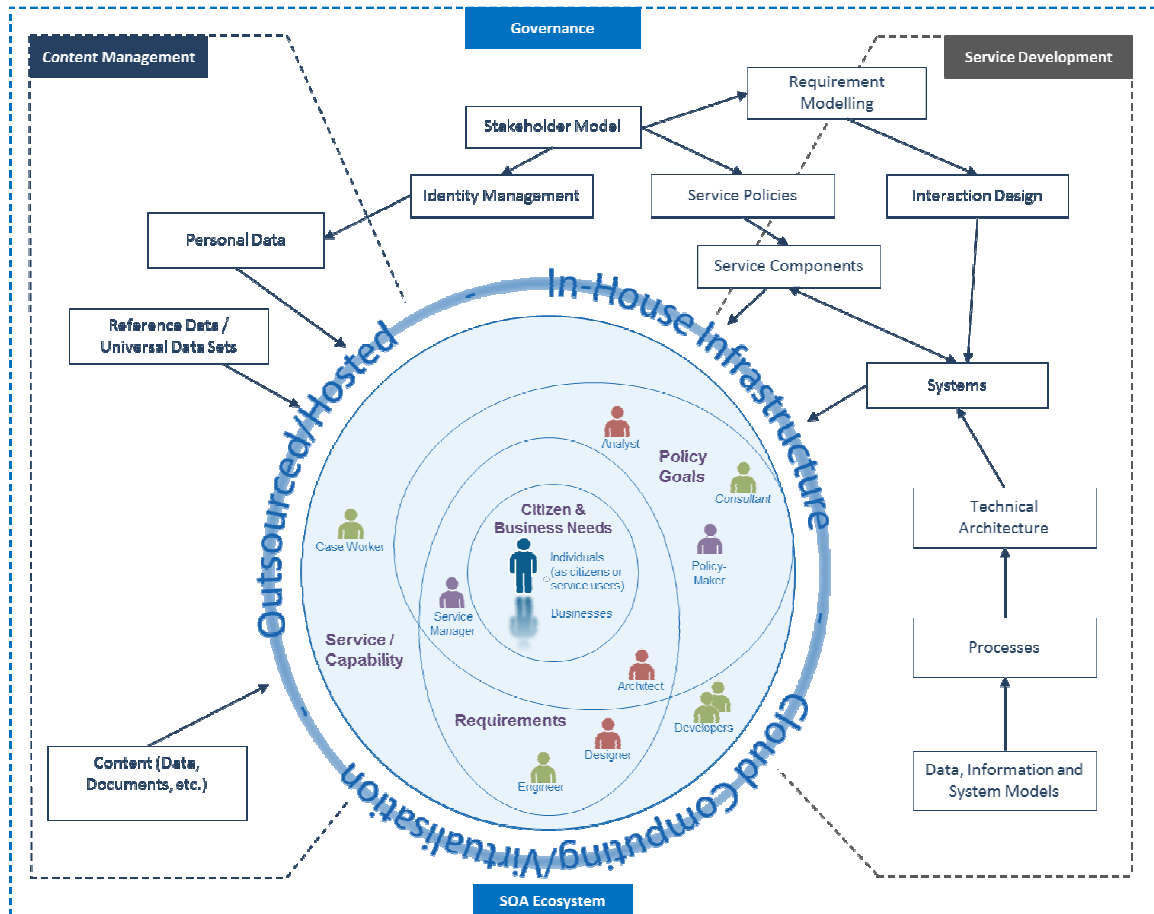


Figure 7: Overview of the Technology Management Framework

In line with [TGF-PL-Core], any conformant implementation of the Technology Management Framework:

MUST manage information and ICT system resources as distinct, valued assets including issues related to the Identification, ownership, stewardship and usage policies for each asset type;

MUST explicitly model the stakeholders, actors and systems that comprise the overall service ecosystem and their relationships to each other

SHOULD maintain and update the stakeholder model on a regular basis

MUST use the OASIS 'Reference Model for SOA' as the primary source for core concepts and definitions of the SOA paradigm, including

- A clear understanding of the goals, motivations and requirements that any SOA-based system is intended to address;
- Identifiable boundaries of ownership of all components (and identity of the components themselves) in any SOA ecosystem;
- Discrete service realisation and re-use that provides a capability to perform some work on behalf of another party;
- The specification of any capability that is offered for use by another party with clear service descriptions and contracts

SHOULD consider the OASIS 'SOA Reference Architecture Framework' when designing specific SOA-based systems

369 Further guidance on how to implement this process is given in Part III (d) of this TGF Primer.

370 Component 3: Critical Success Factors

371 Conformant Transformational Government programs manage and measure these Critical Success
372 Factors throughout the life of the program.

373 Strategic Clarity

- 374 • **All-of-Government view:** Transformational government cannot be pursued on a project-by-
375 project or agency-specific basis but requires a whole-of-government view, connecting up
376 relevant activities in different agencies at different levels of government within and between
377 countries.
- 378 • **Clear vision:** all program stakeholders have a common, agreed and comprehensive view of what
379 the program is seeking to achieve. In particular, we do not spend money on technology before
380 identifying the key organizational and business changes needed to deliver our vision.
- 381 • **Strong business case:** we know what outcomes we want to achieve, have base-lined where we
382 are now, and know how we will measure success.
- 383 • **Focus on results:** although we have a vision of where we want to go, and a set of principles by
384 which we will move forwards, we do not over-plan. Instead, our strategy focuses on taking
385 concrete, practical steps in the short to medium term, rather than continually describing the
386 long-term vision.

Leadership

- **Sustained support:** political leaders and senior management are committed to the program for the long term. This is particularly relevant given the realities of changing political leadership and underlines the need for continuity across those changes.
- **Leadership skills:** our program leaders have the skills needed to drive ICT-enabled business transformation, and have access to external support
- **Collaborative governance:** leaders from all parts of our and other organizations involved in the program are motivated for it to succeed, and are engaged in clear and collaborative governance mechanisms to manage any risks and issues.

User focus

- **A holistic view of the customer:** we understand who the customers for our services are - not just for individual services - but across the Government as a whole. We know our customers, both internal and external, are different - and understand their needs on a segmented basis.
- **Customer-centric delivery:** customers can access all our services through a "one-stop service". This is available over multiple channels and that respond to different needs, but we use web-based services to join it all up and reduce infrastructure duplication, and we encourage customers into lower cost channels where possible and compatible with individual needs (such as accessibility).
- **Stakeholder empowerment:** we engage customers directly in service design and delivery, and provide them with technology tools that enable them to create public value themselves.

Stakeholder engagement

- **Stakeholder communication:** all our stakeholders - users, suppliers, delivery partners elsewhere in the public, private and voluntary sector, politicians, the media, etc. - have a clear understanding of our program and how they can engage with it.
- **Cross-sectoral partnership:** other market players (in the private, voluntary and community sectors) often have much greater influence on customer attitudes and behaviour than government - so our strategy aims to build partnerships which enable the market to deliver our objectives.

Skills

- **Skills mapping:** we know that the mix of business change, product and marketing management, program management, and technology skills needed to deliver transformational change does not already exist in our organisation. We have mapped out the skills we need, and have a clear strategy for acquiring and maintaining them.
- **Skills integration:** we have effective mechanisms in place to maximize value from the skills available in all parts of our delivery team, bringing together internal and external skills into an integrated team.

Supplier Partnership

- **Smart supplier selection:** we select suppliers based on long-term value for money rather than price, and in particular based on our degree of confidence that the chosen suppliers will secure delivery of the expected business benefits.
- **Supplier integration:** we will manage the relationship with strategic suppliers at top management level, and ensure effective client/supplier integration into an effective program delivery team with shared management information systems.

Future-proofing

- **Interoperability:** Wherever possible we will use interoperable, open standards which are well supported in the market-place.
- **Web-centric delivery:** we will use SOA principles in order to support all of our customer interactions, from face-to-face interactions by frontline staff to online self-service interactions
- **Agility:** we will deploy technology using common building blocks which can be re-used to enable flexible and adaptive use of technology to react quickly to changing customer needs and demands.
- **Shared services:** key building blocks will be managed as government-wide resources - in particular common customer data sets (e.g. name, address); applications and application interfaces (e.g. authentication, payments, notifications); and core ICT infrastructure.

Achievable Delivery

- **Phased implementation:** we will avoid a "big bang" approach to implementation, reliant on significant levels of simultaneous technological and organizational change. Instead, we will develop a phased delivery roadmap which:
 - works with citizens and businesses to identify a set of services which will bring quick user value, in order to start building a user base
 - prioritise those services which can be delivered quickly, at low cost, and low risk using standard (rather than bespoke) solutions
 - works first with early adopters within the Government organisation to create exemplars and internal champions for change
 - learns from experience, and then drives forward longer term transformations.
- **Continuous improvement:** we expect not to get everything right first time, but have systems which enable us to understand the current position, plan, move quickly, and learn from experience
- **Risk management:** we need clarity and insight into the consequences of transformation and mechanisms to assess risk and handle monitoring, recovery and roll-back

Benefits Realization

- **Benefits realisation strategy:** we have a clear strategy to ensure that all the intended benefits from our Transformation Program are delivered in practice, built around the three pillars of benefit mapping, benefit tracking and benefit delivery.

Component 4: Benefits Realisation Strategy

The three parts of the TGF Benefits Realisation Strategy are:

- **Benefit Mapping:** which sets out all the intended outcomes from the transformation program and gives visibility of how the outputs from specific activities and investments in the program flow through to deliver those outcomes;
- **Benefit Tracking:** which takes this a step further by baselining current performance against the target output and outcomes, defining “smart” success criteria for future performance, and tracking progress against planned delivery trajectories aimed at achieving these success criteria; and
- **Benefit Delivery:** which ensures that governance arrangements are in place to ensure continued benefits after the initial transformation program is implemented.

The relationship between these parts and conformance criteria for this element of the TGF are shown below.

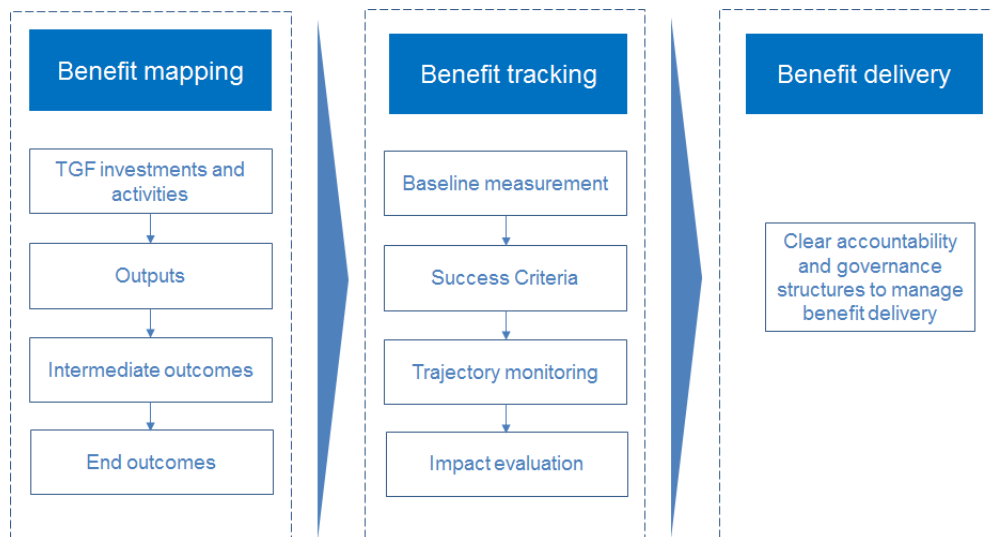


Figure 8: Overview of the Benefits Realisation Strategy

In line with [TGF-PL-Core], any conformant implementation of the Benefit Realisation Strategy:
MUST clearly identify and quantify the impacts and outcomes that implementation of the TGF aims to achieve
SHOULD ensure clear line-of-sight between every investment and activity in the programme, the immediate outputs these produce, and the final targeted outcomes
MUST establish clear and quantified baselines for the current performance of target outputs and outcomes
MUST set measurable success criteria
SHOULD track progress against planned delivery trajectories for each of the targeted outputs and outcomes
MUST establish clear accountability and governance structures to manage benefit delivery

Terminology and Reference Model

The Business Management Framework of the TGF includes formal terminology and a reference model in order to ensure that all stakeholders have a clear, consistent and shared understanding of the key concepts involved in Transformational Government; how these concepts relate to each other; how they can be formally modelled; and how such models can be leveraged and integrated into new and existing information architectures.

This enables any conformant agency to use a common terminology without ambiguity and be sure that these terms are used consistently throughout all work.

Some key concepts are already introduced below. Further guidance on how the terminology is composed and how a reference model may be used is given in Part III (a) of this Primer.

Core Terminology

Accessibility

A policy prescription that aims at ensuring that people with disabilities and the elderly can use public services with the same service levels as all other individuals.

Channel

A particular means and/or path of delivery of a service to a customer

Customer

Any natural or legal person (a citizen or a business) who uses a public service. Standard SOA terminology refers to “consumer” but “customer” is to be preferred in order to highlight a more active role than is implied by (the more passive term) consumer.

Customer Franchise

A collaborative organisation created by the government with the purpose of: understanding the needs of a specific customer segment for government services (such as, for example, parents, motorists, disabled people, land and property); championing the needs of that segment within government; aggregating content and transactions for that segment from across government and beyond; and delivering that content and services as part of the wider Franchise Marketplace.

Delegate

Some person or agent acting with authority on behalf of another person.

Delivery Roadmap

A detailed multi-year plan for the delivery of an overall cross-government vision for service transformation

Ecosystem

A set of ICT systems and stakeholders together with the environment and context within which they all operate

Franchise Marketplace

The virtual business infrastructure within which Customer Franchises collaborate with each other and other stakeholders to deliver user-centric, trusted and

516 *interoperable content and transactions to citizens and businesses. The Franchise*
517 *Marketplace is the business model recommended by the TGF for best delivering the*
518 *TGF Guiding Principle of “Build services around customer needs, not organisational*
519 *structure”.*

520 **Goal**

521 *A broadly stated, unmeasured but desired outcome. Not to be confused with an*
522 **Objective**

523 **Inclusion**

524 *A policy prescription that aims at allowing everyone to take full advantage of the*
525 *opportunities offered by new technologies to overcome social and economic*
526 *disadvantages and exclusion.*

527 **Interoperability**

528 *The ability of disparate and diverse organisations to interact towards mutually*
529 *beneficial and agreed common goals, involving the sharing of information and*
530 *knowledge between the organisations, through the business processes they support,*
531 *by means of the exchange of data between their respective ICT systems.*

532 **Leadership**

533 *Key people and governance structures needed to develop and implement a*
534 *Transformational Government program*

535 **Need**

536 *A general statement expressed by a stakeholder of something that is required. Not*
537 *to be confused with a **Requirement***

538 **Objective**

539 *A specific, measurable and achievable outcome that a participant seeks to achieve*

540 **One-stop Service**

541 *A service designed around the needs of citizens and businesses. Such a service brings*
542 *content and transactions from a wide number of different government agencies,*
543 *and from different layers of government, enabling them to be integrated as a “one*
544 *stop” point of service delivery, according to common service standards and with*
545 *common marketing and communication.*

546 **Policy Product**

547 *A document that has been formally adopted on a government-wide basis and aimed*
548 *at helping achieve one or other goal of transformational government*

549 **Requirement**

550 *A formal statement of a desired result that, if achieved, will satisfy a need*

551 **Security**

552 *The set of mechanisms for ensuring and enhancing trust and confidence in a system.*

553 **Service-Orientation, Service-Oriented**

554 *A paradigm for organizing and utilizing distributed capabilities that may be under*
555 *the control of different ownership domains.*

556 **Stakeholder**

557 *Any claimant inside or outside an organisation who have a vested interest in any*
558 *problem and/or its solution*

559 **Stakeholder Governance Model**

560 *Model and process in which key stakeholders are identified, engaged and buy-in to*
561 *the transformation program*

562 **System**

563 *A collection of components organized to accomplish a specific function or set of*
564 *functions*

565 **Transformational Government**

566 *A managed, customer-centred, process of ICT-enabled change in the public sector*

Part III: Guidance Notes

This part of the TGF Primer sets out some initial guidance to help TGF users understand and implement the TGF, focusing in particular on:

- The TGF Business Management Framework
- The TGF Customer Management Framework
- The TGF Channel Management Framework
- The TGF Technology Management Framework
- TGF Terminology.

We envisage issuing further guidance over time, but this initial set of guidance notes is intended to give a deeper view of the context for these major elements of the TGF, and to highlight best practice approaches to its implementation.

Part III (a): Guidance on the TGF Business Management Framework

Introduction

The TGF Business Management Framework is in four main sections:

- Context
- Overview of key components in the TGF Business Management Framework
- Detailed description of and guidance on the key components

Context

For largely historical reasons, governments are generally organised around individually accountable vertical silos (for example, tax, health, transport) with clear demarcations between central, regional, and local government. Even within a particular tier of government, several organisations can have responsibility for different aspects of the same person, same asset or same process. Yet citizen and business needs cut across these demarcations. In moving to a customer-centric approach, it is vital to redress this fragmented approach to business management, and to put in place business management processes which operate at the whole-of-government level.

Overview of key components in the TGF Business Management Framework

The Transformational Government Framework identifies six key aspects of business management which need to be tackled in this way:

- **Transformational Government leadership:** the key people and governance structures needed to develop and implement a Transformational Government program
- **A collaborative Stakeholder Governance Model:** the process by which all key stakeholders are identified, engaged and buy-in to the transformation program, including to the Guiding Principles described in Component 1 of the TGF
- **A common terminology and reference architecture:** ensuring that all stakeholders have a clear, consistent and common understanding of the key concepts involved in Transformational Government and how these inter-relate
- **A Transformational Business Model:** a new virtual business layer within government, focused round the needs of citizens and businesses, which enables the existing silo-based structure of government to collaborate effectively in understanding and meeting user needs
- **The development and management of Policy Products** that constitute the documented commitment to the transformational process of any conformant agency
- **A Roadmap for Transformation:** giving a four to five year view of how the program will be delivered, with explicit recognition of priorities and trade-offs between different elements of the program.

A high level view of the logical relationships between these components is illustrated below.

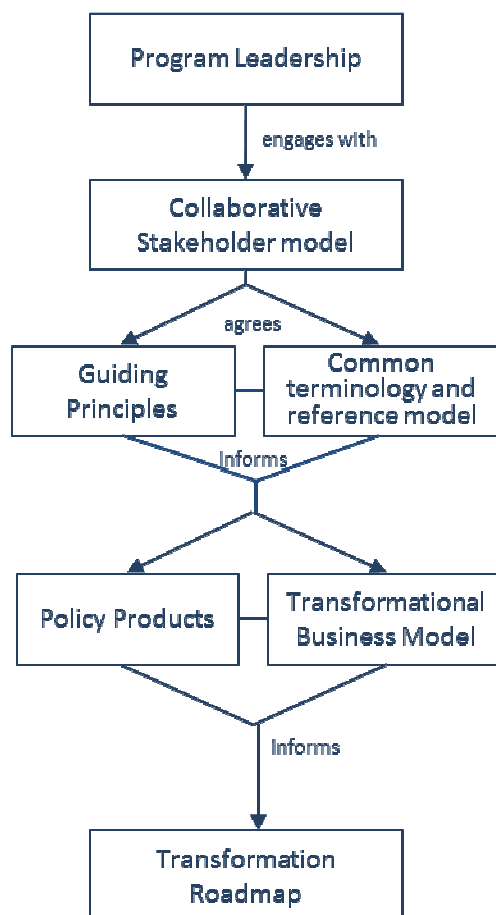


Figure 9: Key components of the Business Management Framework

Transformational Government Leadership

Transformation programs require sustained leadership over a period of years.

There is no “ideal” leadership structure for a transformation program: the optimal positioning of the leadership team will depend on the context of each specific government. However, global experience suggests the following factors are vital to address in whichever way is most appropriate for the specific context:

- **A clear focus of accountability:** at both the political and administrative levels there should be an explicit functional responsibility for the Transformation Program. These functions should be occupied by individuals with sufficient authority to command the resources and mobilise the support necessary to fulfil this mission.
- **Deployment of formal program management disciplines:** to deliver effective-Government-wide transformation, it is vital to use a formalised program management approach, such as PRINCE 2⁹.

⁹ PRINCE2 is a process-based approach for project management, providing an easily tailored and scalable project management methodology for the management of all types of projects. The method is the de-facto standard for project management in the UK and is practiced worldwide. It is in the public domain, offering non-proprietary best practice guidance on project management. PRINCE2 is a registered trademark of the UK government’s Office of Government Commerce.

- Ensuring the **right skills mix in the leadership team**. Effective leadership of a Transformation Program requires the senior accountable leaders to have access to a mix of key skills in the leadership team which they build around them, including: strategy development skills, stakeholder engagement skills, marketing skills, commercial skills and technology management skills. Deployment of a formal competency framework such as SFIA¹⁰ can be helpful in identifying and building the right skill sets.
- Building a **broad-based leadership team across the wider government**. It is not essential that all Ministers and senior management are committed to the transformation program from the outset. Indeed, a key feature of an effective roadmap for transformation is that it nurtures and grows support for the strategy through the implementation process. However, it is important that the program is seen not simply as a centralised or top-down initiative. Sharing leadership roles with senior colleagues across the Government organisation is therefore important. Further detail on this is set out in the section below on a collaborative stakeholder model.

Collaborative Stakeholder Governance Model

Development and delivery of an effective Transformational Government program requires engagement with a very wide range of stakeholders, not only across the whole of government but also with the private sector, voluntary and community sectors as well as with business and citizen users of public services. A significant effort is needed to include all stakeholders in the governance of the Transformational Government program at an appropriate and effective level.

Key elements are set out below that a conformant TGF program will need to address in developing its Collaborative Stakeholder Governance Model, if it is to engage successfully with stakeholders and align them effectively behind shared objectives. Each of these elements is then discussed in more detail.

¹⁰ The Skills Framework for the Information Age (SFIA) provides a common reference model for the identification of the skills needed to develop effective Information Systems (IS) making use of ICT, enabling employers of ICT professionals to carry out a range of HR activities against a common framework of reference - including skill audit, planning future skill requirements, development programmes, standardisation of job titles and functions, and resource allocation. The Skills Framework for the Information Age is owned by The SFIA Foundation: www.SFIA.org.uk.

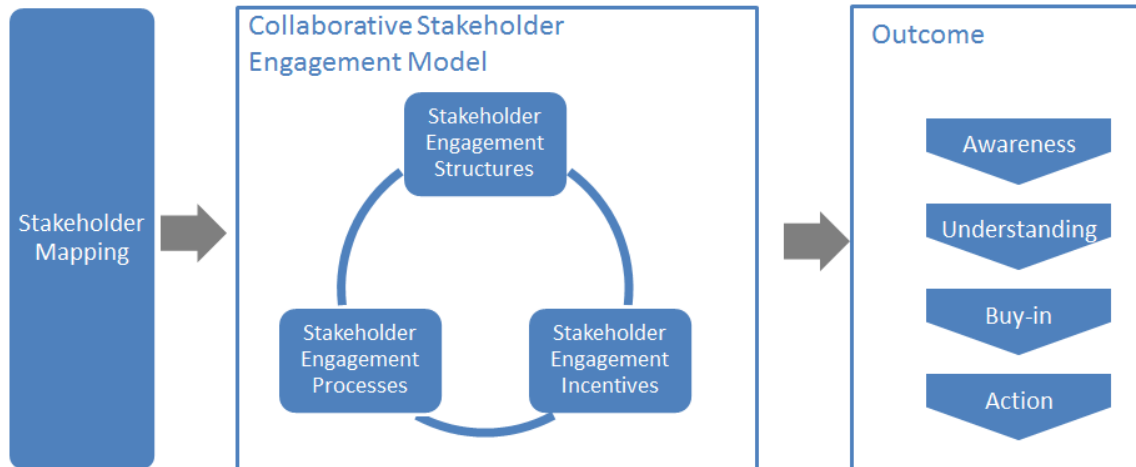


Figure 10: Overview of Collaborative Stakeholder Governance

Stakeholder Mapping

It is vital to describe and map the complete landscape of relevant stakeholders. The Transformational Government Framework puts the individual – whether acting on their own behalf as a citizen or on behalf of another citizen or of a business– at the centre:

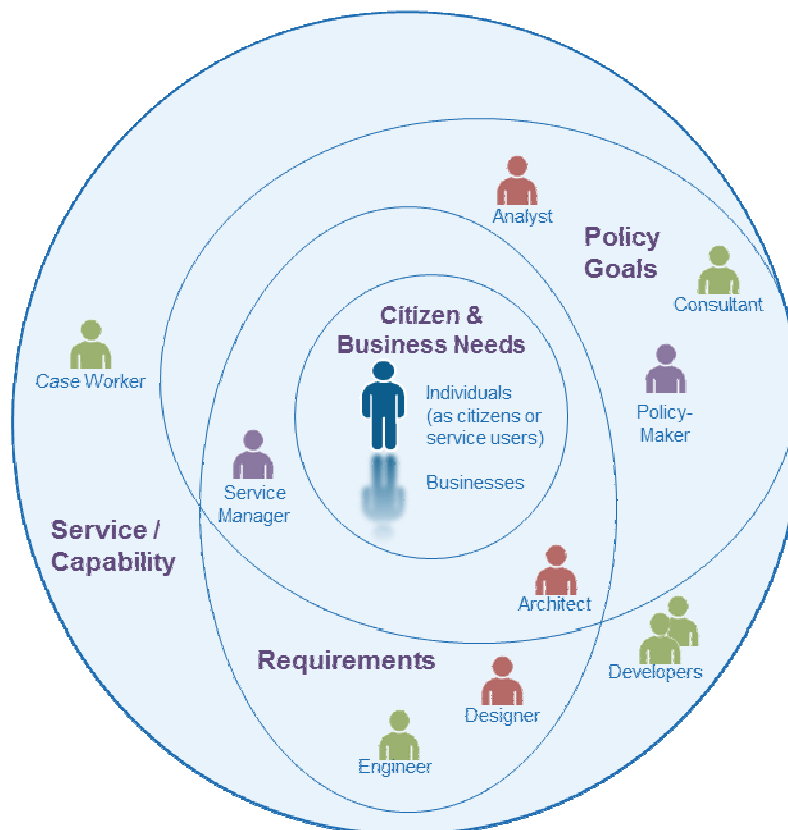


Figure 11: Landscape of some key stakeholders

This view deliberately and completely avoids the rather generic concept of ‘User’ that is dominant in traditional IT stakeholder engagement models, preferring rather to identify the different interests

and concerns that are at stake (the mauve labels) and the key groups of stakeholders (the different people icons) in the development of any service.

The figure is by no means complete nor the only 'valid' view. It seeks instead to illustrate that the process of transformation requires reappraisal of the current set-up and assessment of what needs to change.

By clearly separating out key stakeholder groups and starting to understand and articulate their specific concerns *as stakeholders* (any individual's *role* may vary according to context: in one situation, a person is a parent; in another, a policy-maker; or another, a service provider), we can start to understand how stakeholders relate (in different roles): to each other; to various administrations and services involved; to policy drivers and constraints; and how these all come together in a coherent ecosystem supported by a Transformational Government Framework. In this view,

- A **service** (or ICT capability made available as a service) is understood as responding to a set of requirements and policy goals (some of which overlap) – stakeholders concerned at this level include, for example, case workers in a public administration or developers who have worked with them in delivering a specific service;
- **Requirements** encapsulate and formalise vaguely stated goals and needs of citizens and businesses and take on board the policy goals of the political sponsor or champion – stakeholders at this level include, for example, managers of public service who can articulate the needs of their respective services, the information and systems architects who capture those needs as formal requirements that engineers can work with to develop services;
- **Policy Goals** capture the high-level concerns and priorities of the political authorities and continually assess how these goals reflect key citizen and business concerns – stakeholders include policy makers and senior management as well as consultants and analysts involved in helping identify technology and administrative trends that can be used to leverage those goals; and finally;
- Citizen and Business **Needs** that, ultimately, can only be fully understood by the people concerned themselves – nonetheless stakeholders at this level can also include citizen or business associations, consumer and other interest groups who engage with policy makers to advance the interests of certain groups with distinct needs and are able to articulate those needs in ways that can be used by analysts and consultants.

The various ellipses in the diagram above are deliberately not concentric circles. This is to underline that the process of establishing a service or capability is not a linear one going from needs, goals and requirements. In reality stages are often inter-related.

The mapping of stakeholders and their principal concerns at a generic level is used as a key input to the TGF reference model outlined in the next section and that needs to be validated within any TGF program. It is valuable as a tool for encouraging collaborative governance as it renders explicit many of the relationships and concerns that are often left implicit but nonetheless impact on an organisation's ability to reflect stakeholders' concerns.

The Stakeholder Engagement Model

However, it is not enough simply to map and understand stakeholder relationships and concerns. An effective TGF program will also address the three other dimensions of the model illustrated above:

- 703 • **Stakeholder Engagement Structures:** the organisational arrangements put in place to lead the
704 transformation programme, e.g.:
705 central unit(s)
706 governance boards
707 – industry partnership board
- 708 • **Stakeholder Engagement Processes:** the processes and work flows through which the TGF
709 Leadership and the different TGF Stakeholders interact, e.g.:
710 reporting and accountability processes
711 risk management processes
712 issue escalation processes
713 consultation processes
714 – collaborative product development processes.
- 715 • **Stakeholder Incentives:** the set of levers available to drive change through these governance
716 structures and processes. These will vary by government, but typical levers being deployed
717 include:
718 central mandates
719 political leadership
720 administrative championship
721 personal performance incentives for government officials
722 – alignment between public policy objectives and the commercial objectives of private sector
723 partners.

724 There is no one right model for doing this successfully, but any conformant TGF program needs to
725 make sure that it has used the framework above to define its own Collaborative Stakeholder
726 Engagement Model which explicitly articulates all of these elements: a comprehensive stakeholder
727 map, coupled with the structures, processes and incentives needed to deliver full understanding and
728 buy-in to the program, plus effective stakeholder action in support of it.

729 *Collaboration between TGF Programs*

730 The model clearly focuses attention *within* any specific TGF program. However (and increasingly)
731 collaboration is required also *between* governments and, by implication, between TGF programs.

732 In the figure below, we see that collaboration between TGF programs is favoured at the political,
733 legal and organisational levels and only later, if and when necessary, at the more ‘tightly-coupled’
734 semantic and technical levels.

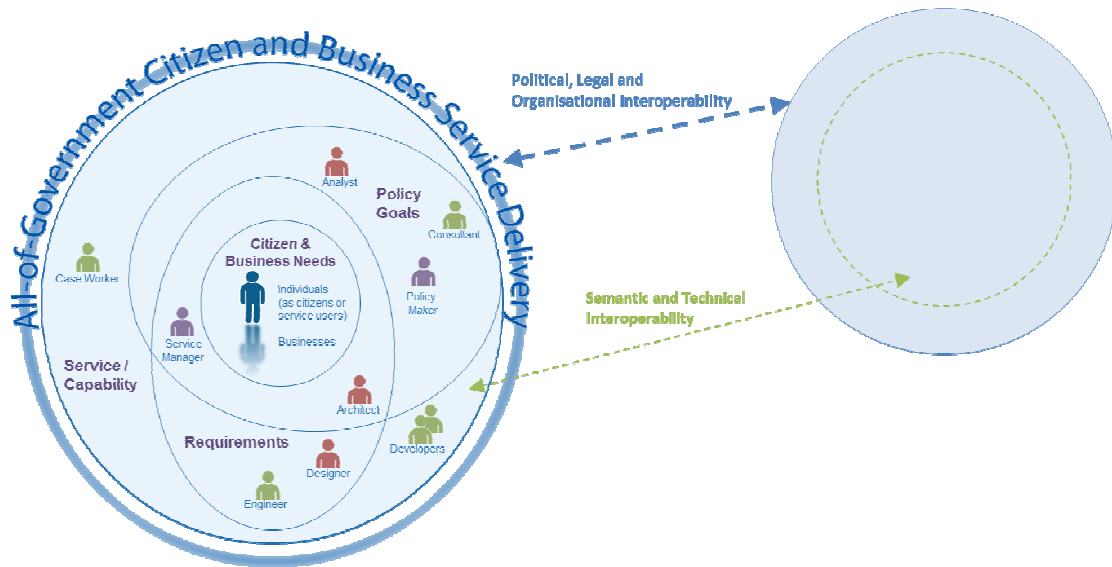


Figure 12: Collaboration between TGF programs through different levels of Interoperability

This approach is also consistent with the SOA paradigm for service development – not only are requirements defined and services offered independently of any underlying technology or infrastructure but also one TGF program can be seen (and may need to be seen) as a ‘service provider’ to another TGF program’s ‘service request’. For example, a business wishing to establish itself in a second country may need to provide authenticated information and credentials managed by government or business in the first country.

A further advantage of this approach is that it becomes easier to identify and manage high level government requirements for services: whether in the choice of ICT standards that may need to be used to address a particular technology issue or determining the criteria for awarding public procurement contracts, this approach allows a ‘loose-coupling’ at the level of clearly defined high-level policy needs rather than the more tightly-coupled and often brittle approach of specifying particular technologies, software or systems.

Common Terminology and Reference Model

In any change program of this breadth and complexity, it is vital that all stakeholders have a common understanding of the key concepts involved and how they interrelate, and have a common language to describe these in.

We therefore recommend that a TGF-conformant transformation program should seek to agree with stakeholders a common Terminology and Transformation Reference Model.

Why have a terminology and reference model?

In everyday life, we use **terms** – ‘citizen’, ‘need’, ‘service’ – as common, often implicitly accepted labels for **concepts**. The concept is the abstract mental idea (which should be universal and language independent) to which the term gives a material expression in a specific language. Particularly in an

international environment such as global standardization initiatives, the distinction is important as it is common concepts that we wish to work with, not common terms¹¹.

This distinction also helps avoid common modelling pitfalls. Terms that may seem similar or the same across two or more languages may actually refer to different concepts; or a single term in one language could be understood to refer to more than one concept which another language expresses with discrete terms: For example, the English *term* ‘service’ can refer to different *concepts* - an organisational unit (such as ‘Passport Service’) or something that is performed by one for another (such as ‘a dry cleaning service’), whereas discrete terms are used for the discrete concepts in German (‘Dienst’ or ‘Dienstleistung’). As the TGF is intended for use anywhere in the world, it is important to ensure that (ideally) global concepts can be transposed and translated and thus understood in other languages: we therefore need to associate an explicit definition with each concept as we do in a dictionary. The TGF uses the structure and methodology of an existing international standard to create its terminology¹²

Concepts do not exist in isolation, however. It is the broader understanding of the relationships between concepts that give those concepts fuller meaning and allow us to model our world, our business activities, our stakeholders, etc. in a way that increases the chance that our digital systems are an accurate reflection of our work. In information science, an ontology is a formal representation of knowledge as a set of concepts within a domain, and the relationships between those concepts. It can be used to describe the domain (the coverage should be sufficiently comprehensive to include all concepts relevant to the domain) and to reason about the domain.

The TGF does not include a formal ontology but is sufficiently clear in its concepts, definitions and relationships between concepts that the Framework will use consistently as an internally coherent set. It does include however a “reference model” that is clear enough that subsequent ontology development is possible if so desired.

The TGF Primer already includes formal definitions of key concepts used throughout the Framework and a complete terminology and reference model – that formalizes the concepts and the relationships between them – is prepared as a separate deliverable.

Transformational Business Model

Weaknesses of current models

A central task of the TGF leadership and collaborative stakeholder model is to develop a new and effective business model which enables the machinery of government to deliver customer-centric “one stop services” in practice.

It is failure to address this requirement for a new business model which, arguably, has been the greatest weakness of most traditional e-Government programmes. For the most part, the transition to e-Government has involved overlaying technology onto the existing business model of government: a business model based around unconnected silos - in which policy-making, budgets, accountability, decision-making and service delivery are all embedded within a vertically-integrated

¹¹ This is central to all multi-lingual thesauri, for example, where the core item of organisation is the concept, not the term.

¹² “Terminology work – Vocabulary – Part 1: *Theory and application*” [ISO 1087-1:2000]

delivery chain based around specific government functions. The experience of governments around the world over the last two decades is that this simply does not work.

So what is the new business model which is required to deliver transformational government? Many attempts have been made by governments to introduce greater cross-government coordination, but largely these have been "bolted on" to the underlying business model, and hence experience only limited success.

The Franchise Marketplace Model

This Framework recommends implementation of a business model which permits the joining-up of services from all parts of government and external stakeholders in a way that makes sense to citizens and businesses, yet without attempting to restructure the participating parts of government. Conceptually, this leads to a model where the existing structure of government continues to act as a supplier of services, but intermediated by a "virtual" business infrastructure based around customer needs. A top-level view of such a virtual, market-based approach to transformational government is set out in the figure below:

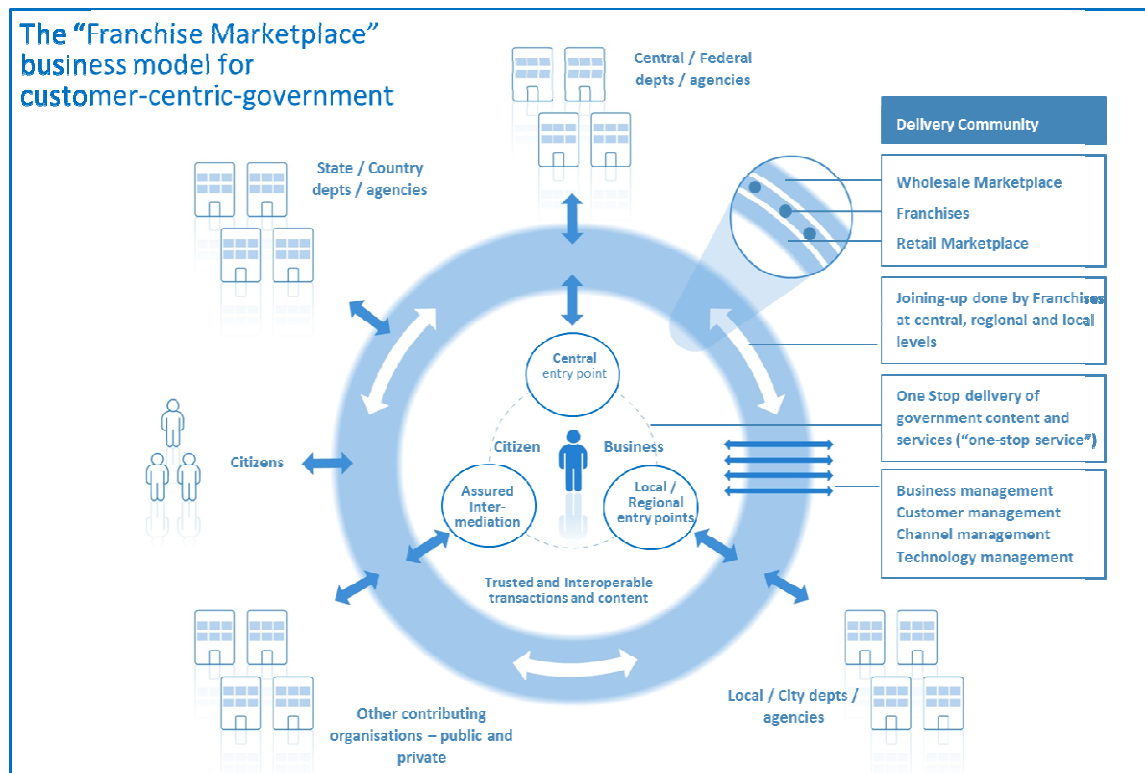


Figure 13: Overview of the Franchise Marketplace

Key features of this business model are:

- The model puts into place a number of agile cross-government virtual "franchise businesses" based around customer segments (such as, for example, parents, motorists, disabled people). These franchises are responsible for gaining full understanding of their customers' needs so that they can deliver quickly and adapt to changing requirements over time in order to deliver more

customer centric services - which in turn, is proven to drive higher service take-up and greater customer satisfaction.

- Franchises provide a risk-averse operational structure that enables functionally-organised government agencies at national, regional and local to work together in a customer-focused "Delivery Community". They do this by :
 - Enabling government to create a "virtual" delivery structure focused on customer needs
 - Operating across the existing structure of Government (because they are led by one of the existing "silos") and resourced by organisations that have close links with the relevant customer segment including, possibly, some outside of government
 - Dividing the task into manageable chunks
 - Removing a single point of failure
 - Working to a new and precisely-defined operating model so as to ensure consistency
 - Working across and beyond government to manage the key risks to customer-centric service delivery
 - Acting as change agents inside-Government departments / agencies.
- The model enables a "mixed economy" of service provision:
 - firstly, by providing a clear market framework within which private and voluntary sector service providers can repackage public sector content and services; and
 - secondly by deploying 'Web 2.0' type approaches across government that promote re-use and 'mash-ups' of existing content and services, to make this simpler and cheaper at a technical level.
- The whole model is capable of being delivered using Cloud Computing

This Franchise model represents an important break-through in the shift from a traditional e-Government approach towards transformational government. Certainly, the model as a whole or key elements of it has been adopted successfully in governments as diverse as the UK, Hong Kong, Croatia, Abu Dhabi and Australia (where it has been adopted by both the South Australia and Queensland governments).

It is clearly possible that alternate models may develop in future. But however the Transformational Government agenda develops, every government will need to find some sort of new business model along these lines, rather than continue simply to overlay technology onto an old silo-based business model built for an un-networked world.

Enabling the Franchise Marketplace Model

A number of relationships need to be managed by a franchise to enable it to develop, maintain and deliver transformational customer-centric one-stop services. These represent different viewpoints that can be broadly classified as:

- **Customers:** Those citizens and businesses to whom the franchise delivers content and services, plus those internal stakeholders to whom the franchise provides a service within the government.
- **Partners:** Those who are actors in the normal operation and delivery of the service, both internally and externally to the government.

- 857 • **Influencers:** those who have a political, business or altruistic interest in the service and the part
858 that it plays in broader government, business and social scenarios.
- 859 • **Internal Customers:** Those who work with the franchise to develop and maintain the service.

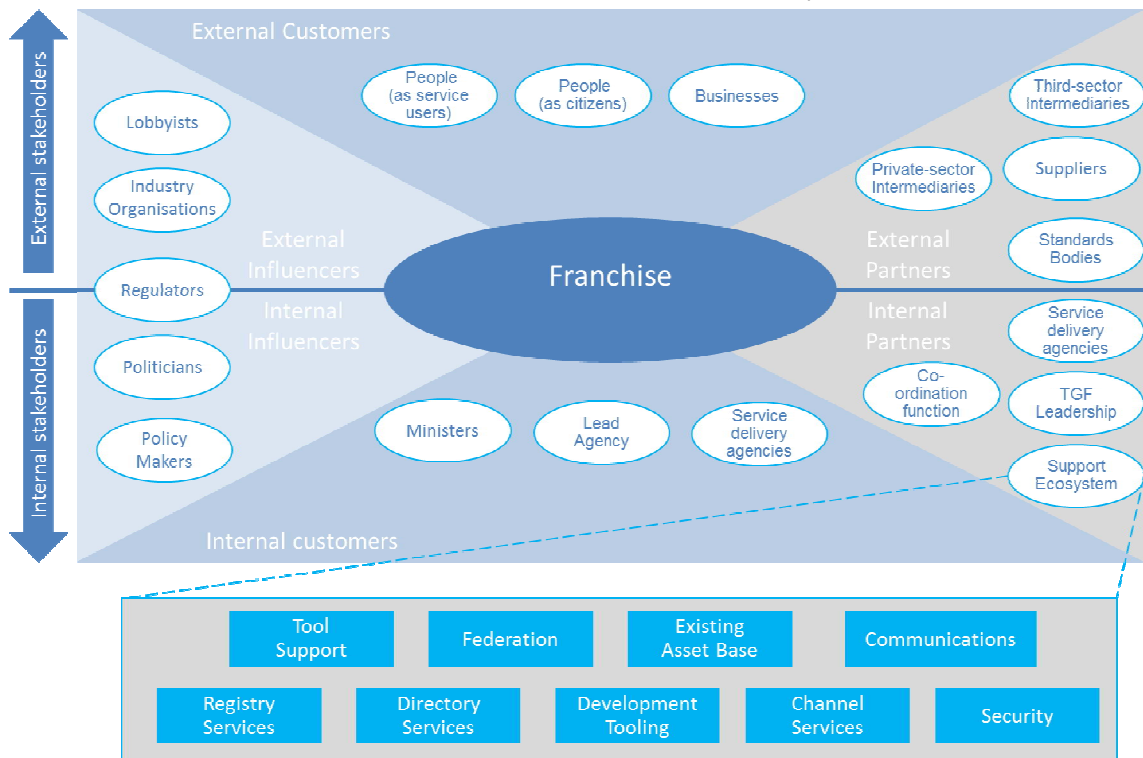


Figure 14: Relationships in the Franchise Marketplace

The Franchise

The franchise is based around a customer segment. It may contain bodies drawn from central, regional, and state government and others that contribute to serving that segment.

It MUST have a lead organisation that ensures its interests are represented to other franchises and bodies. It MUST also have sponsoring organisations that with a responsibility for the full range of service perspectives across the segment.

The franchise is responsible for ensuring that all relationships with external bodies are managed and for the provision of supporting assets necessary to allow organisations within the franchise and working with it to discharge their responsibilities in an open, consultative and transparent manner.

Despite the importance of the franchise concept, it is not intended to add unnecessary bureaucracy – rather, it is intended to provide a lightweight framework within which participants can work naturally and cooperatively.

Customers

Customers are the most important actors in operational services as the services MUST address their needs and those of the people that they represent.

Thus, as well as being users, it is essential that they are consulted during the proposal stage for all services. Once operational, this group SHOULD to be involved in customer satisfaction exercises and the development of any service enhancements to ensure that their needs continue to be met.

It is vital that Franchises identify their internal government customers and apply similar customer research and customer satisfaction measurement to these internal customer relationships as well as to external ones.

Partners

Many partners will be involved in helping the Franchise effectively to deliver the requirements of its customer segment. The partnership may involve:

- working with the franchise to develop and maintain the service
- providing the supporting assets which give a technical underpinning for this and other services.

The supporting assets provide the technical underpinning for project delivery. Where they are publically owned, it is intended that they will provide light-touch governance and facilities (primarily technical) to support franchises and inter-working between them and with standards bodies.

It is essential that they ensure the provision and availability of assets that are universal (i.e. fundamental items that are required by all public sector organisations) or common (i.e. assets used across multiple franchises).

Tooling SHOULD to be provided with the aim of supporting all stakeholders and facilitating their collaboration.

Influencers

The influencers are those who identify, and possibly mandate, the need for a service. Accordingly, it is vital that they are able to steer developments within and across franchises. They also have a responsibility to ensure that all stakeholders are aligned and are organisationally capable of discharging their responsibilities.

Policy Product Management

We define a "Policy Product" as: any document which has been formally adopted on a government-wide basis in order to help achieve the goals of transformational government. These documents vary in nature (from statutory documents with legal force, through mandated policies, to informal guidance and best practice) and in length (some may be very lengthy documents; others just a few paragraphs of text). Policy Products are important drivers of change within government: first because the process of producing them, if managed effectively, can help ensure strategic clarity and stakeholder buy-in; and second because they then become vital communication and management tools.

Over recent years, several governments have published a wide range of Policy Products as part of their work on Interoperability Frameworks and Enterprise Architectures, and other governments are therefore able to draw on these as reference models when developing their own Policy Products. However, we believe that the set of Policy Products required to ensure that a holistic, government - wide vision for transformation can be delivered is much broader than is currently being addressed in most Interoperability Frameworks and Enterprise Architectures.

A TGF-conformant transformation program will use the matrix shown below to create a map of the Policy Products that are needed to deliver the program effectively. This matrix maps the four delivery processes described in Component 2 of the TGF (Business Management, Customer Management, Channel Management and service-oriented Technology Management) against the five interoperability domains identified in what is currently the broadest of Interoperability Frameworks - the European Interoperability Framework (EIF): technical, semantic, organisational, legal and policy interoperability. While the EIF framework is conceptually complete, by mapping it against these core delivery processes, a much clearer sense can be gained of the actions which are needed.

The TGF Policy Product Map	Political Interoperability	Legal Interoperability	Organisational Interoperability	Semantic Interoperability	Technical Interoperability
Business Management	Strategic Business Case for overall Programme	Legal vires for inter-agency collaboration	Benefits Realisation Plan	Business Process Model	Technology roadmap
Customer Management	Identity Management Strategy	Privacy, data protection and data security legislation	Federated trust model for cross-agency identity management	Common data standards	Single sign-on architecture
Channel Management	Intermediaries Policy	Pro-competitive regulatory framework for the telecoms sector	Channel Management guidelines	Web accessibility guidelines	Presentation architecture
Technology Management	Information Security policy	Procurement legislation	Service level agreements	Physical data model	Interoperability Framework

Figure 15: A Policy Product Map completed with examples of individual policy products. Each cell in the matrix may contain one or more policy products depending on the outcome of relevant analysis

A full analysis of the Policy Products which we recommend are typically needed to deliver an effective and holistic transformation program will be included in a separate Committee Note “Tools and Models for the Business Management Framework”. Although the detailed Policy Products in that note are advisory and not all of them may be needed, any conformant transformation program MUST use the overall framework and matrix of the Policy Product Map in order to conduct at minimum a gap analysis aimed at identifying the key Policy Products needed for that government, taking the Committee Note into account as guidance.

Roadmap for Transformation

Finally, it is essential that the vision, strategy, business model and policies for transformational government are translated into an effective Roadmap for Transformation.

Since everything can clearly not be done at once, it is vital to map out which elements of the transformation programme need to be started immediately, which can be done later, and in what order. There is no one-size-fits all strategy which governments can use, since strategy needs to be tailored to the unique circumstances of each government's situation.

However, all governments face the same strategic trade-offs: needing to ensure clear line-of-sight between all aspects of programme activity and the end outcomes which the Government is seeking to achieve, and to balance quick wins with the key steps needed to drive longer term transformation.

In the early days of the Transformational Government program, we recommend that the major strategic focus should be on **safe delivery** - that is, prioritising high benefit actions which help to accelerate belief and confidence across the Government and the wider stakeholder community that ICT-enabled change is possible and beneficial - but which can be delivered with very low levels of risk. As the programme develops, and an increasing number of services become available, the strategic focus can move towards **building take-up**: that is, building demand for online services and creating a critical mass of users. Once that critical mass starts to appear, the strategic focus can start to shift towards fuller **transformation**: in other words, to start driving out some of the more significant transformational benefits that high levels of service take-up enables, for example in terms of reducing the cost of government service delivery.

As the diagram below makes clear, these strategic foci are not mutually exclusive, but overlap. Crucially, in the Safe Delivery phase there will also be some vital steps needed in order to pave the way for longer term transformation, particularly in respect of establishing the business case for transformation, and embedding the strategy in effective governance processes. But the diagram shows how the strategic weight between each consideration should shift over time.

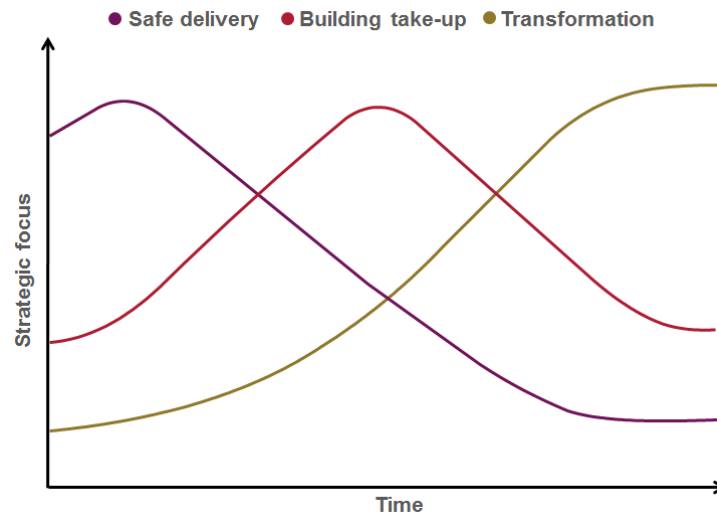


Figure 16: *Roadmap priorities over time*

Guided by the strategic trade-off framework described above, experience shows that a phased approach is the most successful. Typically, an effective Delivery Roadmap will cover five main phases.

Plan

The preparation and planning needed to develop a tailored Delivery Roadmap for the Government, to ensure that the business case for transformation is fully articulated, and that all key stakeholders are on-board. Key outputs from this phase should include:

- Transformation vision: a high level document setting out the agreed future model for transformation of our client organisation and its re-engineered business processes
- Strategic business case: the key costs and benefits associated with the transformation programme
- Delivery roadmap: a multi-year transformation plan, covering, among other things:
 - A change management plan (including communication and training plans)

- 971 – Central capability building and governance processes
- 972 – A sourcing strategy
- 973 – A strategy for moving towards a service oriented ICT architecture
- 974 – A risk management strategy
- 975 – A high level benefits realisation plan, setting out the actions needed to ensure full
- 976 downstream delivery of the intended benefits from the transformation programme.

977 *Initiate*

- 978 In this first phase of delivery, the focus is on building the maximum of momentum behind the
- 979 Roadmap for the minimum of delivery risk. This means focusing in particular on three things:
- 980 • some early quick wins to demonstrate progress and early benefits, for a minimum of delivery risk
 - 981 and using little or no technology expenditure
 - 982 • embedding the Roadmap in governance structures and processes which will be needed to inform
 - 983 all future investments, notably the frameworks of enterprise architecture, customer service
 - 984 standards and issue/risk management that will be required
 - 985 • selecting effective delivery partners.

986 *Deliver*

- 987 In this phase, some of the more significant investments start coming on stream - for example, the
- 988 first version of the major "one-stop" customer-facing delivery platforms, and the first wave of
- 989 transformation projects from "champion" or "early adopter" agencies within the Government

990 *Consolidate*

- 991 In this phase, the focus shifts towards driving take-up of the initial services, expanding the initial one-
- 992 stop service over more channels, learning from user feedback, and using that feedback to specify
- 993 changes to the business and technology architectures being developed as longer term, strategic
- 994 solutions

995 *Transform*

- 996 Finally, the program looks to build out the broader range of e-transformation projects, drive forward
- 997 the migration of all major customer-facing services towards the new one-stop channels, and
- 998 complete the transition to the full strategic IT platform needed to guarantee future agility as
- 999 business and customer priorities change.

Part III (b): Guidance on the TGF Customer Management Framework

Introduction

The TGF Customer Management Framework is in three main sections:

- Context
- Overview of key components in the TGF Customer Management Framework
- Detailed description of and guidance on the key components

Context

The first of the Guiding Principles identified in Component 1 of the TGF is:

"We believe in detailed and segmented understanding of our citizen and business customers:

- These customers should be owned at the whole-of-government level;*
- Decisions should be based upon the results of research rather than assumptions being made about what customers think;*
- Real-time, event-level understanding of citizen and business interactions with government should be developed"*

Putting these principles into practice involves taking a holistic, market-driven approach to every step of the service design and delivery process. This in turn often requires new skills and management practices to be brought into government. The TGF Customer Management Framework draws together best practice on how to do this.

Overview of key components in the TGF Customer Management Framework

There are three key components of the TGF Customer Management Framework:

- Brand-led Service Delivery
- Identity Management
- Stakeholder Empowerment

A high level view of the logical relationships between these components is illustrated below.

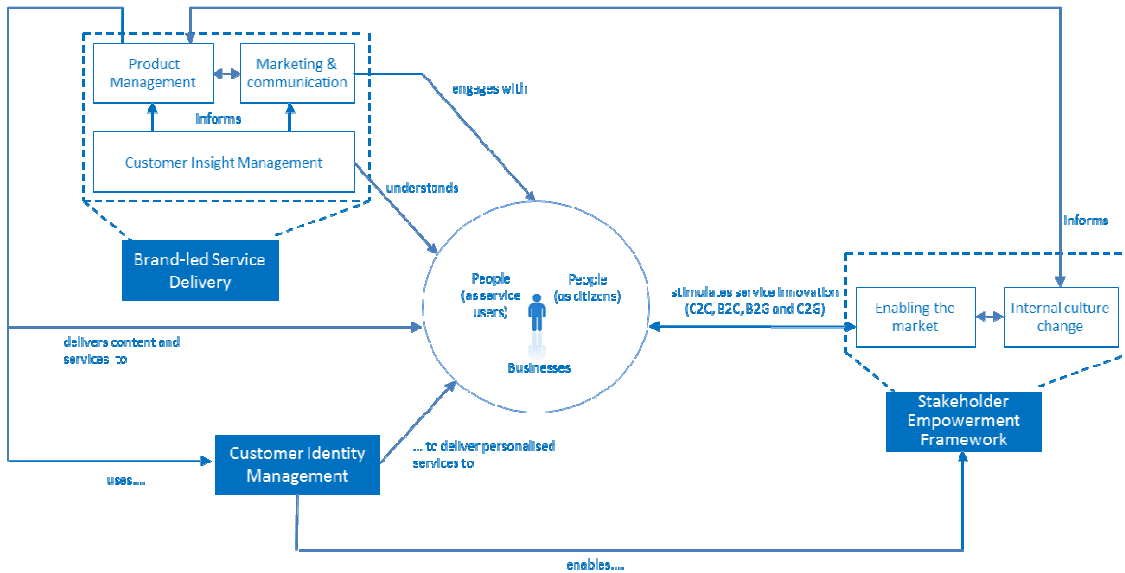


Figure 17: Overview of the Customer Management Framework

Brand and Marketing Strategy

Marketing is critical to effective transformational government, yet is something at which government traditionally does not excel. Often, marketing is fundamentally misunderstood within government - as being equivalent to advertising or perhaps, more broadly, as being equivalent to communication.

Properly understood, however, marketing is the process of:

- Understanding the target market for government services in all its breadth and complexity
- Learning what is needed in order to meet customer needs
- Developing an offer for citizens and businesses that they will engage with
- Establishing a clear set of brand values for that offer - a set of underpinning statements that adequately describe what the product or service will deliver and how
- Delivering that offer through appropriate channels, in a way which fully delivers on the brand values
- Generating awareness about the offer
- Creating desire/demand for the offer
- Reminding people
- Changing the offer in the light of experience

This is the process that a brand-led consumer product company such as Procter and Gamble or Virgin would go through when developing a new product. However, it is not typically how governments manage their own service development, and governments generally lack the skills to do it. Moreover, the challenge faced by governments is significantly more complex than any private sector company, given the greater range and complexity of services and governments need to provide a universal service rather than pick and choose its customers. Yet if governments are to succeed in the ambition of shifting service delivery decisively away from traditional channels to lower-cost digital channels, then these marketing challenges have to be met.

And given the fact that a) customer needs cut across organisational boundaries in government and b) the skills for delivering an effective brand-led marketing approach to service transformation will inevitably be in short supply, it is important that these challenges are addressed at a government-wide level.

A TGF-conformant Transformation Program will establish government-wide processes for managing the three core elements of the TGF Brand-led Service Delivery Framework illustrated below:

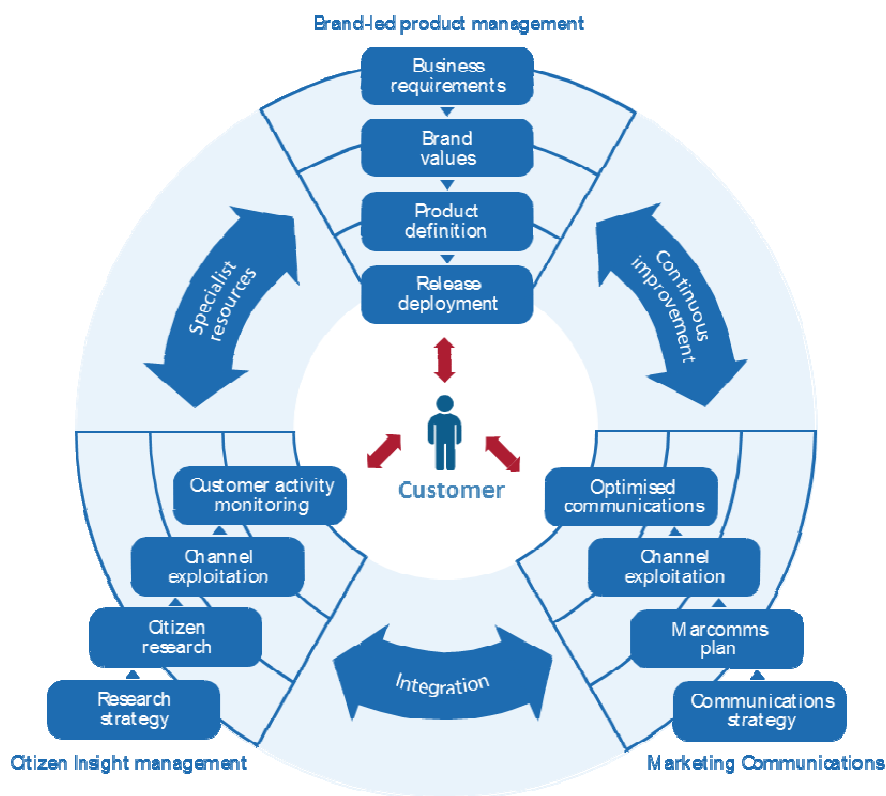


Figure 18: *Brand-led Service Delivery Framework*

- Customer insight
- Brand-led product management
- Marketing communications

Customer insight must inform all aspects of the process, and involves a comprehensive programme of qualitative and quantitative research to understand and segment the customer base for government services. The learnings from this need to be fed into a brand-led product management process - not as a one-off input of initial research, but through a continuous process of iterative design and customer testing. A key output from this will be a set of brand values for the service, which then need to drive all aspects of service delivery, and marketing communications for the service.

This is an iterative process of continuous improvement, not a linear one. Continuous customer insight research is needed to ensure that both the service delivery experience and the marcoms activity remain aligned with the brand values, through successive phases of release deployment. As

the service is implemented, across a range of channels, best practice management information systems can be deployed to ensure that the Government now has real-time, event-level management information about the experience of all customers - which in turn provides a powerful feedback loop into further innovation in the service design.

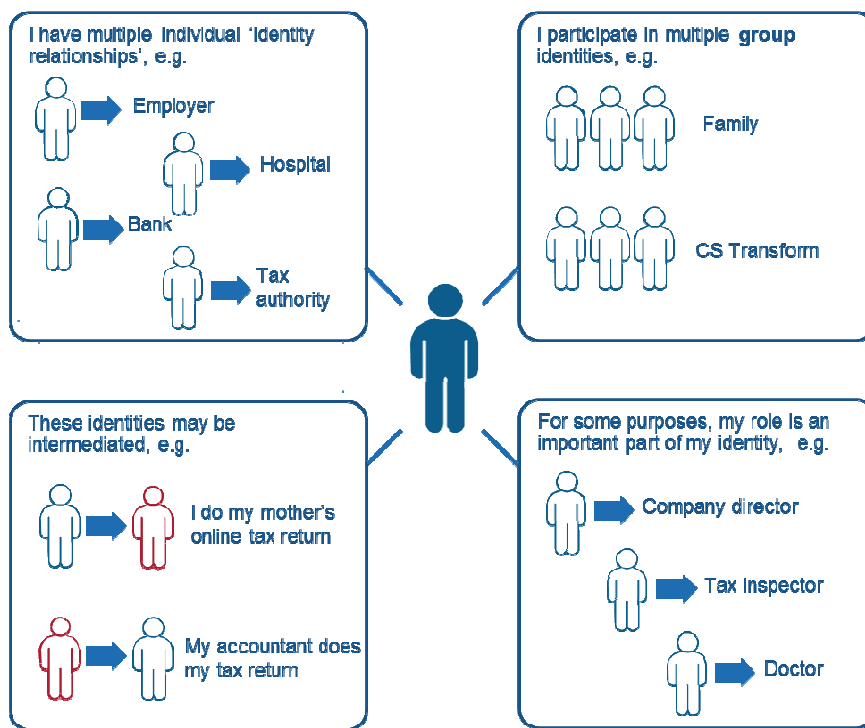
Often, this will require the Government to bring in specialist resources, because typically it may face significant gaps in terms of the people and skills needed to manage brand-led product development and marketing cycles of this nature.

Identity Management

Identity management is a key enabler, yet something with which most governments struggle. At the heart of that struggle is often a failure to put the customer at the centre of government's thinking about identity.

A wide range of agencies, standards bodies and advocacy groups are deeply involved in many aspects of this work, from technical models for privacy management (such as the OASIS PMRM technical committee¹³) through to the business, legal and social issues around online identity assurance (such as promoted by Open Identity Exchange, OIX¹⁴). It is not the purpose of the Transformational Government Framework to address the details of identity management or recommend specific policies or approaches but rather to give high-level guidance on the main issues that a conformant program should seek to address.

Identity is a complex, and by definition deeply personal, concept. As the following figure illustrates, a single person in fact has multiple, overlapping "identities".



¹³ See http://www.oasis-open.org/committees/tc_home.php?wg_abbrev=pmrm

¹⁴ See <http://openidentityexchange.org/>

1095 Figure 19: *Complexity of identities*

1096 Each identity may be associated with different rights and permissions, even different addresses.
1097 These identities overlap, but in some cases the individual concerned may want to keep them
1098 separate in order to protect his or her privacy. At other times, he or she may want them to be joined
1099 up, and be frustrated at constantly having to furnish government with the same information over
1100 and over again.

1101 Governments have often struggled to manage this complexity. Typically, identity is defined
1102 separately in relation to each silo-based government service. Even countries which have traditionally
1103 had the simplicity of a single citizen identifier (such as Finland, where there has been a single
1104 population register since 1634), have tended to build up separate and inconsistent business
1105 processes for identity verification. Although the advent of e-Government held out the promise of
1106 significant simplification of identity management - bringing service improvement gains for the
1107 customer and efficiency savings for the Government - significant barriers remain. These include legal
1108 barriers that have grown up over centuries of piecemeal approaches taken by public administrations
1109 (as well as, more recently, also by the private sector) and put in place often to protect individuals
1110 from the effects of equally piecemeal processes. As such the impact of any changes must be
1111 considered very carefully.

1112 Many of the tools which governments have put in place to guarantee security in the online world
1113 (passwords, PINs, digital signatures etc), have in practice acted as barriers to take-up of online
1114 services. And attempts to join up databases to enable cross-government efficiencies and service
1115 improvements have often been met with mistrust and suspicion by users.

1116 Increasingly, however, a set of best practices is emerging around the world which we believe
1117 represents a way forward for transformational government, which is broadly applicable across a very
1118 wide range of governments.

1119 Key aspects of this are:

1120 *Business Architecture*

1121 Firstly, a business architecture for identity management which is based on federation between a
1122 wide range of trusted organisations (the Government, banks, employers etc), and a clear model for
1123 cross-trust between these organisations.

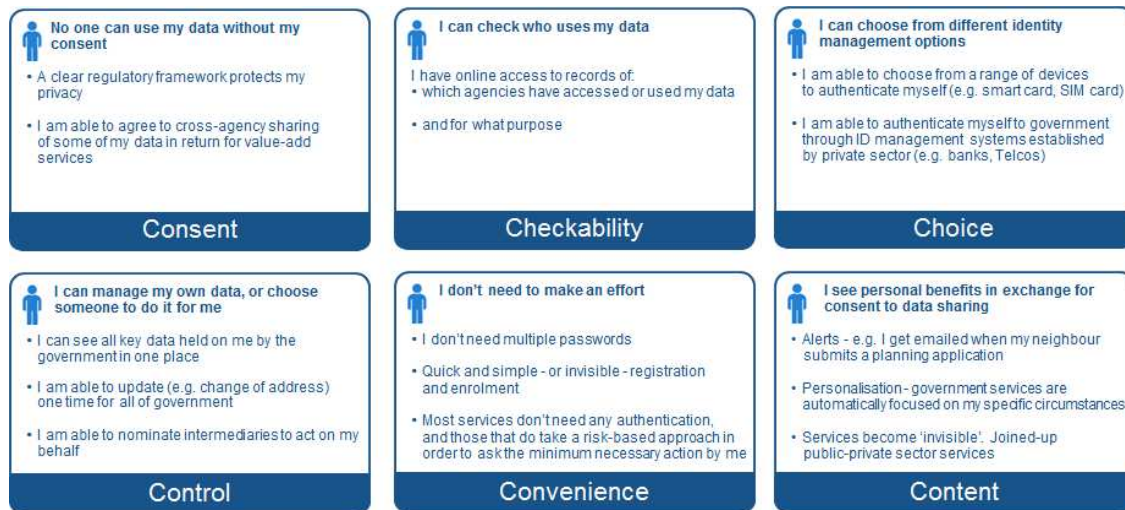
1124 *Technical Architecture*

1125 Secondly, a technology architecture to support this which does not rely on monolithic and potentially
1126 vulnerable large databases, but which, in line with the SOA paradigm, uses Internet-based gateway
1127 services to act as a broker between the different databases and IT systems of participants in the
1128 federated trust model.

1129 *Customer-centric Identity Model*

1130 Thirdly - and perhaps most importantly - a customer service model for identity management which
1131 places individuals themselves directly in control of their own data, able to manage their own
1132 relationship with government – whether on their own behalf as citizens or in another identity

1133 relationship or intermediated role – and with clearly visible controls to reassure them that this is the
1134 case. This customer-centric approach to identity management is illustrated in the figure below.



1135
1136 Figure 20: Overview of Customer-Centric Identity Model

1137 No one-Government has implemented all features of this approach, but all are being successfully
1138 deployed around the world, and together they represent our view of the approach to identity
1139 management which will best help deliver Transformational Government.

1140 Stakeholder Empowerment Framework

1141 We argued in Part I of the TGF that a defining feature of Transformational Government programs is
1142 that they focus on the active stakeholder not the passive "consumer" - that is, they seek to engage
1143 with citizens and businesses as owners of and participants in the creation of public services, not as
1144 passive recipients of services.

1145 What does this mean in practice?

1146 Stakeholder empowerment involves a set of changes which are much more fundamental than the
1147 online consultations and "e-participation" initiatives which characterised the first wave of
1148 e-Government programmes. It is also more fundamental than the application of the latest
1149 generation of technologies to government - although such technologies do have a role to play.

1150 The key shift is to think of service delivery not as something which is done by government to citizens
1151 and businesses but as something in which they are active co-creators of services - or even where
1152 public services are delivered directly citizen-to-citizen with no or minimal government involvement.
1153 Innovators in government who are making that shift are starting to develop a wide range of new
1154 ways to create public value and enhance services, as illustrated:

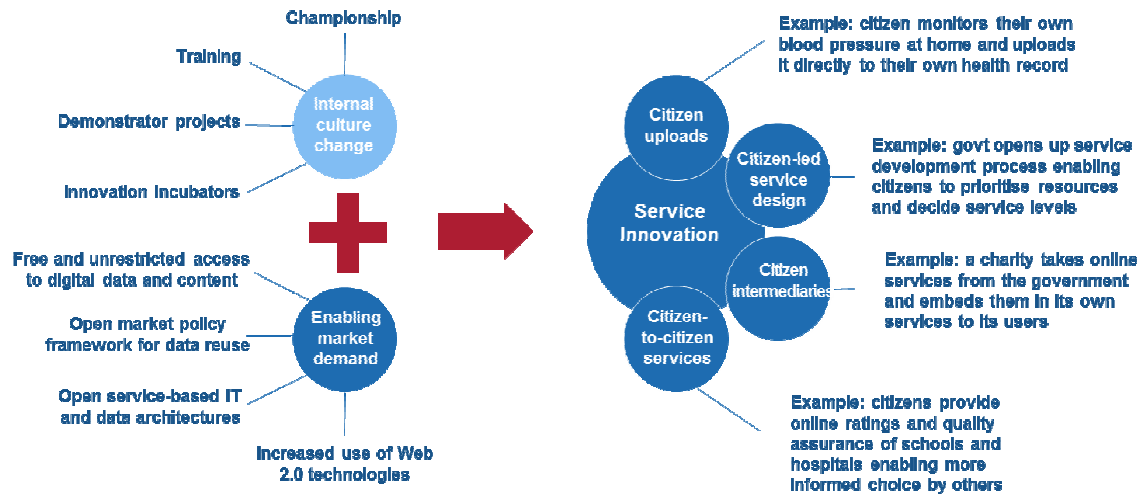


Figure 21: Overview of Stakeholder Empowerment Framework

This figure also highlights two important enablers of this innovation, which we believe are important to address as part of a Transformational Government program:

- Action on the supply side within government, to help create a culture of open innovation within the public sector. Such a culture change - which reflects an increasing trend in the private sector to see external ideas and collaborations as being the key to successful innovation - is particularly challenging in the public sector given the strong tradition of internal control over decision-making and policy development. So pro-active change management is essential.
- Action to enable demand-side pull by customers and third party organisations outside-Government. Particularly important here is the principle that all non-personal data held by government should be open, public, easily reusable, and available at marginal cost - which for digital information means free. By opening up government data, content and services for reuse and repurposing by others, government can enable a level of service innovation and market reach that it could not hope to achieve on its own. Most governments also find that simply making data and content available in theory is not sufficient: in practice they also need to facilitate market-based public service delivery by:
 - building a business model of rules and processes which enable a level-playing field for new market entrants (see the “Wholesale Intermediary Market” component of Part III (b))
 - establishing a service-oriented technology architecture based around open standards and technologies which makes it easier in practical terms for third parties to re-purpose and repackage-Government content (see Part III (d)).

Part III (c): Guidance on the TGF Channel Management Framework

Introduction

The TGF Channel Management Framework is in two main sections:

- Context
- Overview of key components in the TGF Channel Management Framework
- Detailed description of and guidance on the key components

Context

Channel management is often a weak spot in government service delivery, with widespread duplication, inefficiency and lack of user-focus. Experience has shown the common pitfalls to include:

- Managing new, digital channels as "bolt-ons", with business and technical architectures which are entirely separate from traditional face-to-face or paper-based channels
- No common view of customer service across multiple channels
- Operational practices, unit costs and service standards for many channels which fall well below standards set for those channels in the private sector
- A reliance on government-owned channels, with insufficient understanding of how to partner with private and voluntary sector organisations who have existing trusted channels to government customers
- Unproductive and costly competition among service delivery channels

Transformational Government programs seek to avoid these pitfalls, by building a channel management approach centred around the needs and behaviour of citizens and businesses.

Overview of key components in the TGF Channel Management Framework

The two key elements of the approach recommended in the Transformational Government Framework are:

- **Channel Mapping:** a clear audit of what existing channels are currently used to deliver government services. The TGF Channel Mapping approach includes an analysis of these channels across two key dimensions: which delivery channels are being used ('channel mix') and who owns them ('channel ownership').
- **Channel Transformation Strategy:** the TGF helps build a new channel management approach centred around the needs and behaviour of citizens and businesses. The key components of such an approach include:
 - Channel Optimization
 - Channel Shift
 - Cross-Channel Management

- Development of a “mixed economy” in service provision through private and voluntary sector intermediaries.

A high level view of the logical relationships between these components is illustrated below.

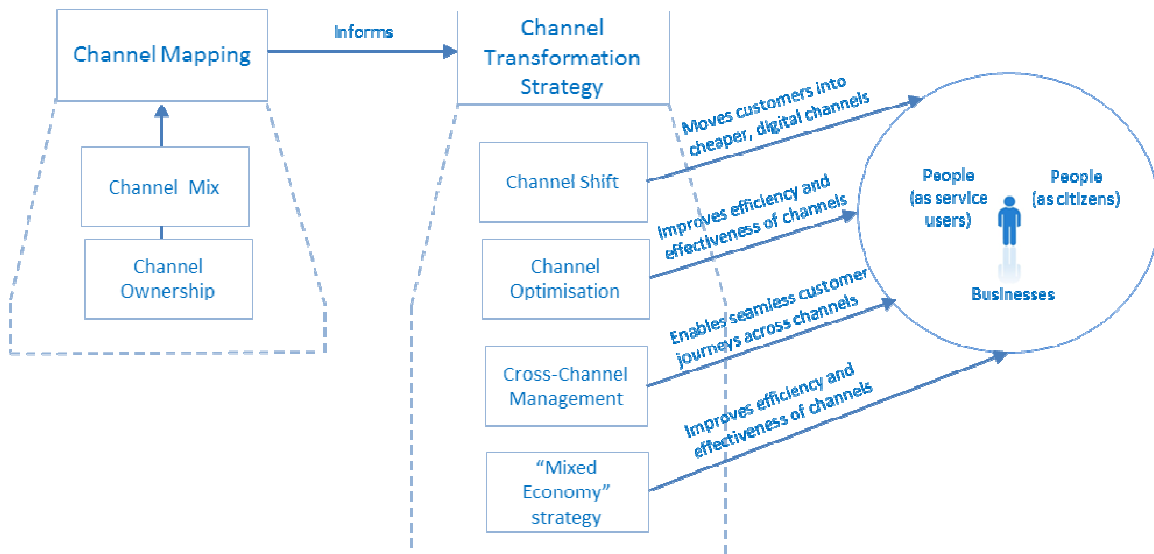


Figure 22: Overview of the Channel Management Framework

Channel Mapping

A vital first step in developing a customer-centric channel management strategy is to carry out a mapping of existing delivery channels across government, and to put a cost to each transaction delivered through these channels based on standard industry assumptions. This will highlight duplication across government (for example, having multiple high-street locations in the same town serving different government departments or agencies), and the savings that can be achieved by joining government services together and using the most efficient delivery channel in each case.

A common finding in channel audits of this type is that much contact between governments and customer is unnecessary, hidden and uncoded. For example, many governments have literally thousands of public service telephone contact numbers.

Much of the contact that results between citizen or business users and the Government is therefore:

- unnecessary - because the user is struggling to find the right place to get the service they need, resulting in multiple contacts before their need is finally resolved
- hidden and uncoded - because only some of these customer contacts are caught by existing management information systems. The rest are just lost within the broader operational structure and budget of government.

A clear map of customer interactions by channel, and the true costs of these, therefore provides essential data in building the business case for service transformation.

In undertaking this mapping, we recommend that a holistic approach is taken to understanding the range of channels through which government services are and could be delivered. Government services can be delivered through a wide range of different channels. It can be helpful to think of that range as varying across two key dimensions, as illustrated below:

- **Channel mix:** that is, the physical type of channel being used. Traditionally, channels for government service delivery have included the face-to-face channel (through high-street and other locations), traditional mail and the traditional telephone. More recently, interactive voice recognition (IVR) and the Internet have become important channels. A key distinction is the extent to which the channel is based around self-service by the customer, or requires some form of intermediation - either in person (e.g. the customer visiting a government office or an official visiting the citizens in the community) or remotely (e.g. by telephone or email).
- **Channel ownership:** it is important to understand, too, the variety of "channel ownership" options which are available. Traditionally, channels for government services have been branded as belonging to a specific government agency. Increasingly, governments looking to develop a customer-centric approach have also started to badge these on a government-wide basis: either covering a single channel (such as a national government portal), or multiple channels (such as Service Canada, which spans walk-in offices, contact centres, and the web).

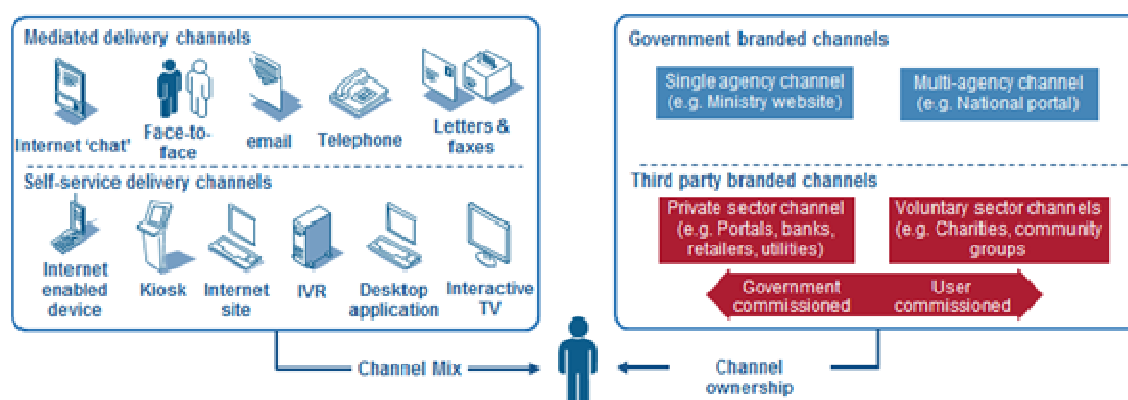


Figure 23: Overview of Channel Mapping

Channel Transformation Strategy

Once a full Channel Mapping has captured the current channel mix and cost base, it is important to map out a strategy for the future desired channel mix, and the future customer experience over different channels.

The key elements of this Channel Transformation Strategy are discussed below.

Channel Shift

Successful private-sector businesses are more effective at this than government. They understand that each channel opens up different ways to create value for customers, so they differentiate services across channels. They also take a hard-nosed approach to channel management, with customers being incentivised to use the channels that are most efficient from a business point of view. And they realise that channel shift is a complicated process, which needs planning over a multi-year period.

Transformational Government programs adopt a similar approach, setting out clear strategies for channel shift⁷. Typically though they recognise two distinct differences between the public and private sector:

- First, government has an obligation to provide services on a universal basis, so is not able to pick and choose which customers it will engage with through different channels. "Directed choice" towards cheaper channels is therefore the strategy selected for most customer-facing services (although a number of governments are increasingly looking to make Internet-only services the norm for businesses).
- Second, in terms of the online channel, government is in a unique position compared with any other online service provider. Whereas an online bank or retailer is limited by the size of the online population in the market, a government can take action significantly to increase that online population. "Digital inclusion" policies, aimed at increasing the proportion of individuals who have access to and confidence in using online channels, are therefore an important part of government channel strategies which would not normally be seen in their private-sector counterparts.

Channel optimisation

As well as seeking to shift future service delivery to an optimal channel mix, Transformational Government programs seek to optimise the performance of each individual channel. In the UK for example, a government-wide review¹⁵ of customer contact found that contact centre performance lagged significantly behind private sector benchmarks, and that on average operational savings of 25% could be achieved in public centre contact centres over a 3 year period by adopting best practices.

Cross-Channel Service Management

However, it is vital not to think about channel optimisation solely on a channel-by-channel basis. There are two imperatives for taking a cross-channel approach to service delivery:

- First, to improve service to customers. Customers do not simply want services to be available through a choice of channels. Rather they want services to be delivered in an integrated way across channels. Transformational Government programs therefore focus on achieving an integrated view of customer interactions across all channels.
- Second, to reduce costs. A shared service approach to channel management can deliver significant efficiency savings. By building channel support services around a common, web-based infrastructure, governments can both reduce costs while also facilitating joined-up services.

Development of a Mixed Economy in Service Provision

Finally, it is essential to recognise that a customer-centric approach involves delivering services where customers want to receive them - and this may often mean that it is important to deliver services through private or voluntary sector intermediaries.

This is particularly important as services become digitised, potentially reducing the marginal costs of delivery to near zero and hence making it easier for third party organisations to bundle public sector services with their own service offerings. This can be challenging for governments, however, since for the first time it means that they are "competing" for customers with other organisations.

¹⁵ *Service Transformation: A better service for citizens and businesses, a better deal for taxpayers*, see http://webarchive.nationalarchives.gov.uk/+/http://www.hm-treasury.gov.uk/media/4/F/pbr06_varney_review.pdf

1306 Establishing clear ground rules for how this sort of mixed economy of service provision should work,
1307 on a basis that will encourage private and voluntary sector organisations to become actively
1308 involved, is therefore an important task for government in creating the policy framework for
1309 Transformational Government and SHOULD be addressed using the Franchise Marketplace Model
1310 outlined above.

Part III (d): Guidance on the TGF Technology Management Framework

The TGF Technology Management Framework is in three main sections:

- Context
- Overview of key components in the TGF Technology Management Framework
- Detailed description of and guidance on the key components

Context

The transformations to business, customer and channel management described above require a new approach to technology and in particular a commitment to the paradigm and principles of Service Oriented Architecture (SOA) and SOA-based infrastructure, as defined in the OASIS 'Reference Model for Service-Oriented Architecture [\[SOA-RM\]](#).

Transformational Government demands a single view of the citizen or business, delivered inside an integrated business and channels architecture. In terms of ICT, all of this requires governments to learn from private-sector best practice. Industry is moving towards a model of company-wide, service-orientated enterprise architecture, where common building blocks using open standards can be re-used to enable flexible and adaptive use of technology to react quickly to changing customer needs and demands. Increasingly, companies are gaining even greater efficiency benefits by managing these building blocks as a service, provided not only from within their own ICT architecture but also from within "the Cloud" - the dynamically-scalable set of private and public computing resources now being offered as a service over the Internet.

Governments are increasingly taking this 'building block' approach to technology development. Key building blocks such as ICT infrastructure, common data sets, and identity verification need to be co-ordinated effectively. While much can be learned from the private sector, simply importing industry practices will not solve this coordination problem within government.

Governments are taking different approaches to the co-ordination function: some build central infrastructure for use by all departments and agencies; others identify lead departments to build and implement common solutions; others have a more decentralised approach, allowing departments to develop their own solutions according to a common architecture and standard set. However, finding an effective approach which works within a specific government is vital, since without this sort of technology flexibility, then Transformational Government becomes impossible - or possible only at great expense and with significant wasteful and duplicated ICT expenditure.

Overview of key components in the TGF Technology Management Framework

The Technology Management Framework is modelled as one of the four TGF delivery processes, but it is concerned with more than "just" the delivery of services using ICT. Its focus on the SOA paradigm is key to an approach that puts citizens and businesses as customers at the centre of a service ecosystem with many stakeholders, roles and systems involved.

The three key elements of the approach recommended in the Transformational Government Framework are:

- Resources Management which underpins ecosystem governance
- Ecosystem Participation
- Realisation and governance of SOA-based ICT systems

A high level view of the logical relationships between these components is illustrated below.

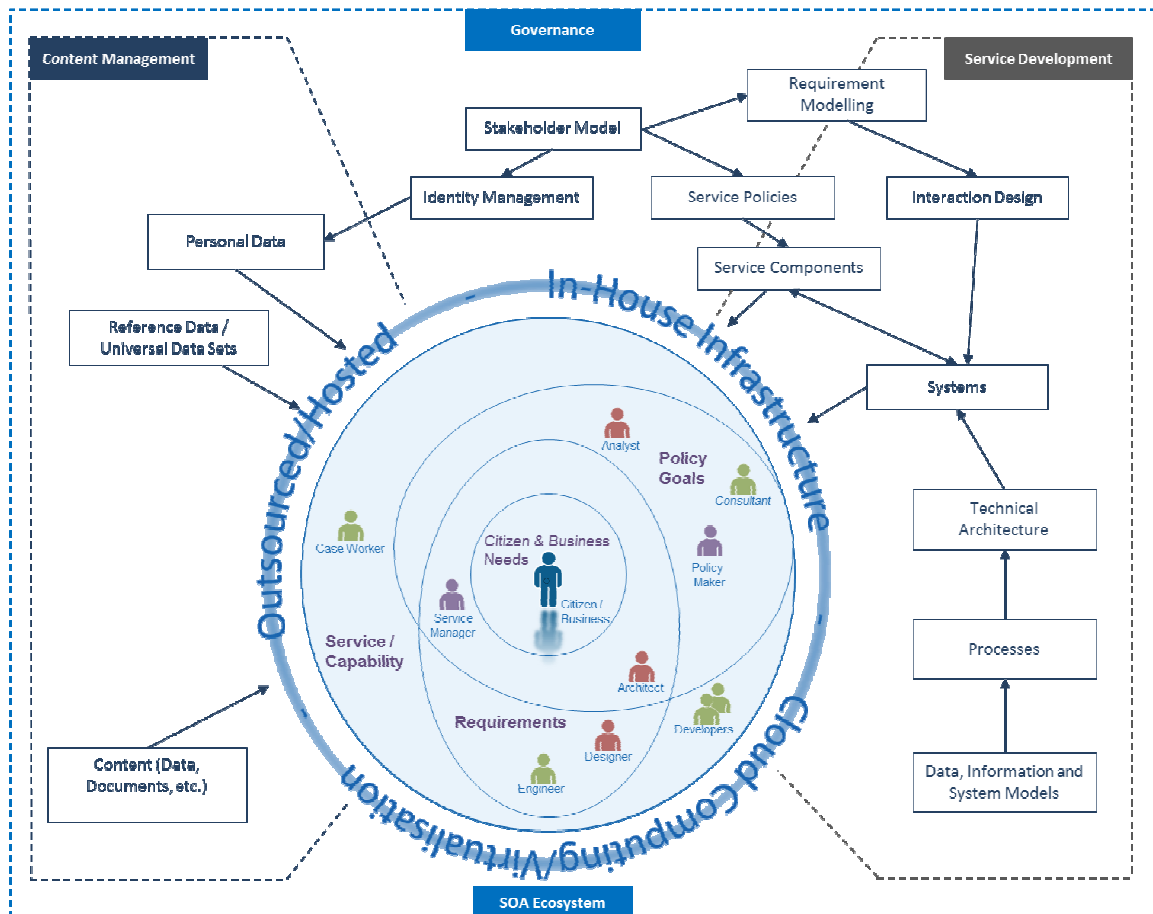


Figure 24: Overview of Technology Management Framework

Resources Management

This entails the explicit identification and management of resources as valued assets, whether information resources (data sets, documents, models, processes, etc.) and technology 'soft products' (systems, applications and services).

Eco-system Participation

Best practice technology management requires a clear model and understanding of the stakeholders, actors and systems that comprise the overall service ecosystem and their relationships to each other. The model must be maintained and updated as stakeholders change over time and over the course of any development effort thus ensuring that requirements are continually evaluated and revised.

Citizens and businesses, as potential customers, must be understood as stakeholders in the ecosystem with 'needs' (often imprecisely formulated) that they seek to satisfy through use of a service; but citizens and businesspeople are also human actors interacting with pieces of technology in precisely-defined interactions. These system-focussed interactions are a result of accurately modelling the processes required of both system and user in order to deliver a particular service capability conforming to explicit 'requirements'. Requirements in turn are revised and updated to reflect changes in stakeholder composition and concerns.

Stakeholders are clearly distinguished and modelled – including the fact that they play different roles in different contexts (and which therefore has implications for role-based authentication). Stakeholder composition is also a good predictor of project risk – understand and modelling stakeholder types helps identify and mitigate risk. Stakeholder modelling underlines that every participant in an ICT development project is implicitly an intermediary representing diverse stakeholder interests in the deployed service.

SOA-based system realisation and governance

Service-Oriented Architecture (SOA) must be understood in its broadest sense – as a paradigm for organising and using capabilities distributed and managed across different ownership domains. In this sense, SOA is technology and platform agnostic and thus provides an appropriate foundation for the technology management framework.

Disparate systems are weaved together as part of a coherent ecosystem while specific 'services', broken down into functional components, are identifiable as distinct from the underlying technologies that deliver them. This encourages ecosystem agility, allowing services to be mixed and matched, composed and re-used – it remains agile and flexible without being brittle, as with many systems where service functionality is tailored and tightly-coupled to addressing a specific problem. Ownership and governance – of information resources as well as ICT products – is federated across ownership boundaries and explicit service descriptions and contracts ensure that everyone knows the 'rules of engagement and use' when using any service.

Key concerns of such an approach include:

- SOA technical architecture and component service ("building block") realisation and re-use;
- Service policies;
- Identity Management;
- Cloud Computing (Service and Infrastructure Virtualisation);
- Interaction Design, based on end-user needs

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