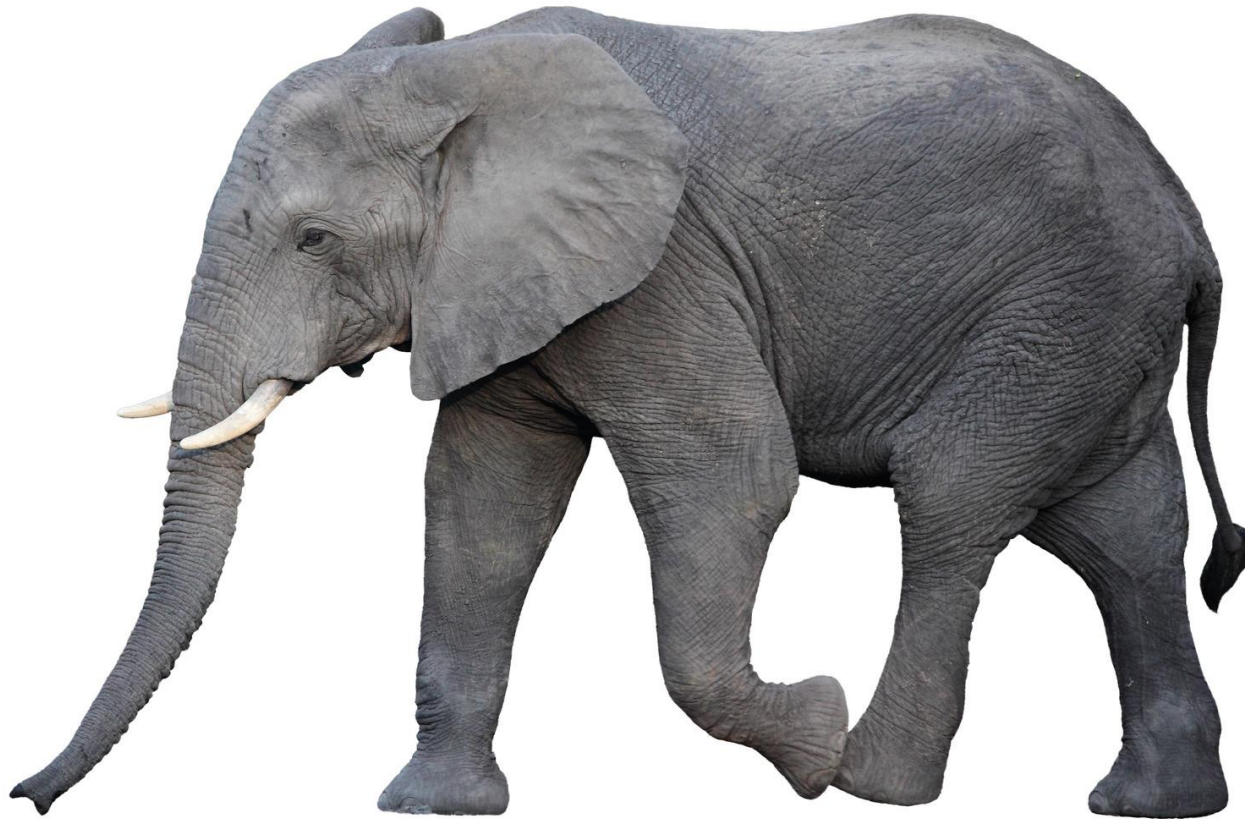


A Utilities' identity Management Journey to the Cloud and Digital Transformation

Every good story needs a metaphor....



This one is about an elephant!

And the metaphor for this story is...

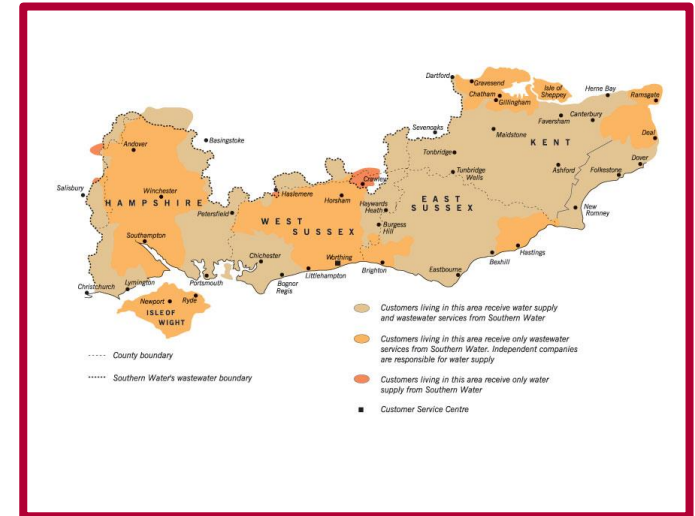
How do you eat an elephant?



One bite at a time!

Background – Southern Water

- Supplies water and wastewater treatment services across a 10,530 sq. Km area of the UK.
- 6+ thousand employees and contractors
- 4.5+ million household customers and also has a large base of commercial customers
- Part of UK's critical 'National Infrastructure', hence regulated
- Investing £3 billion pounds in infrastructure and service improvement between 2015 and 2020





What the business wants to do?

Transform IT to use new technology innovation like cloud and mobility

Provide field employees with easy access to operational systems and data

Improve customer experience by providing simple e-Services

Support government's new open water initiative to increase competition in retail business

Improvement visibility and security



What capabilities do they need for that?

Single Identity Store

Single sign on

Employee service

Customer self service

Federation

Audit and Analytics



What constraints them from executing?

Fragmented requirements

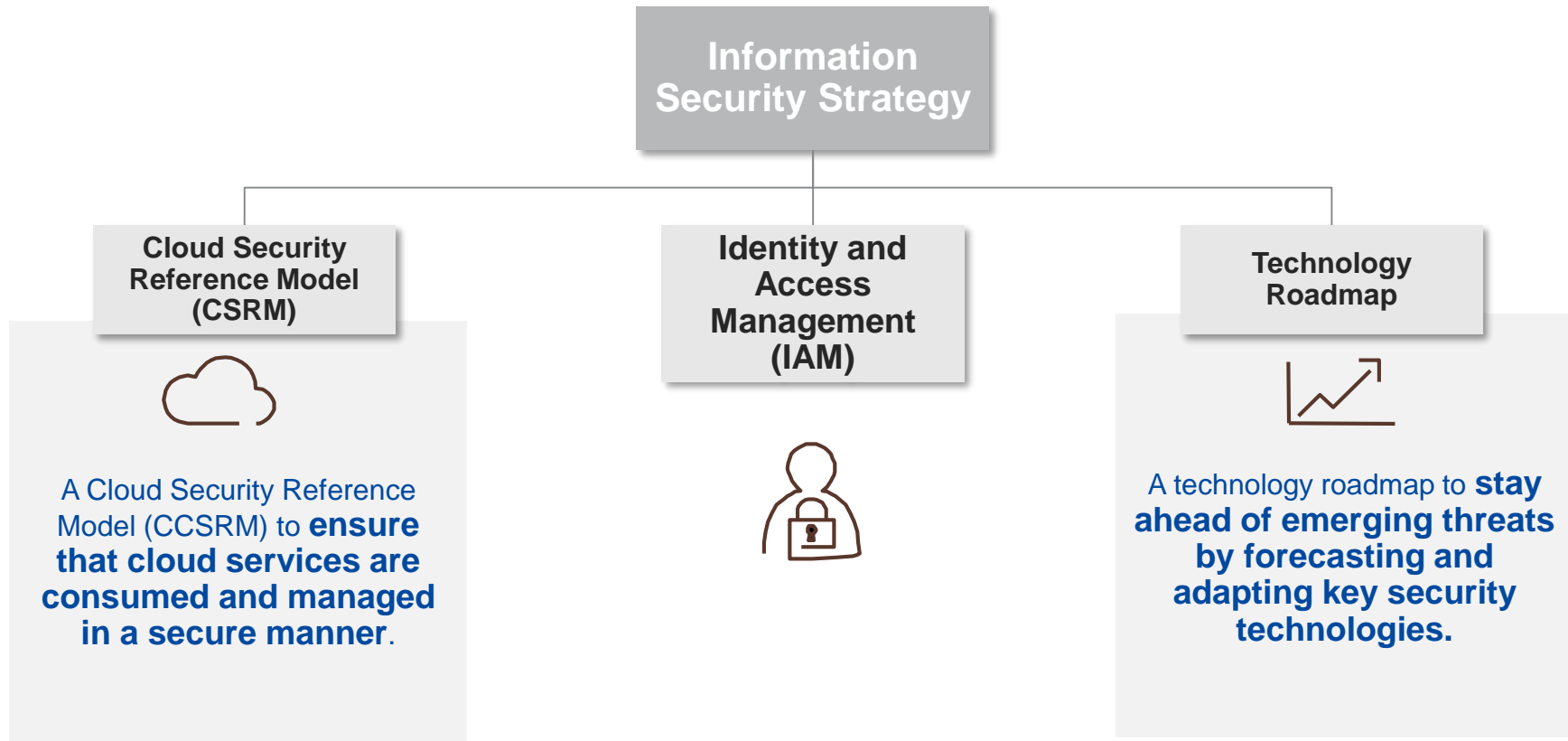
Fragmented funding of IT change programmes

No centralisation of Identity Governance and Architecture

Business engagement and understanding of benefits

What did we do?

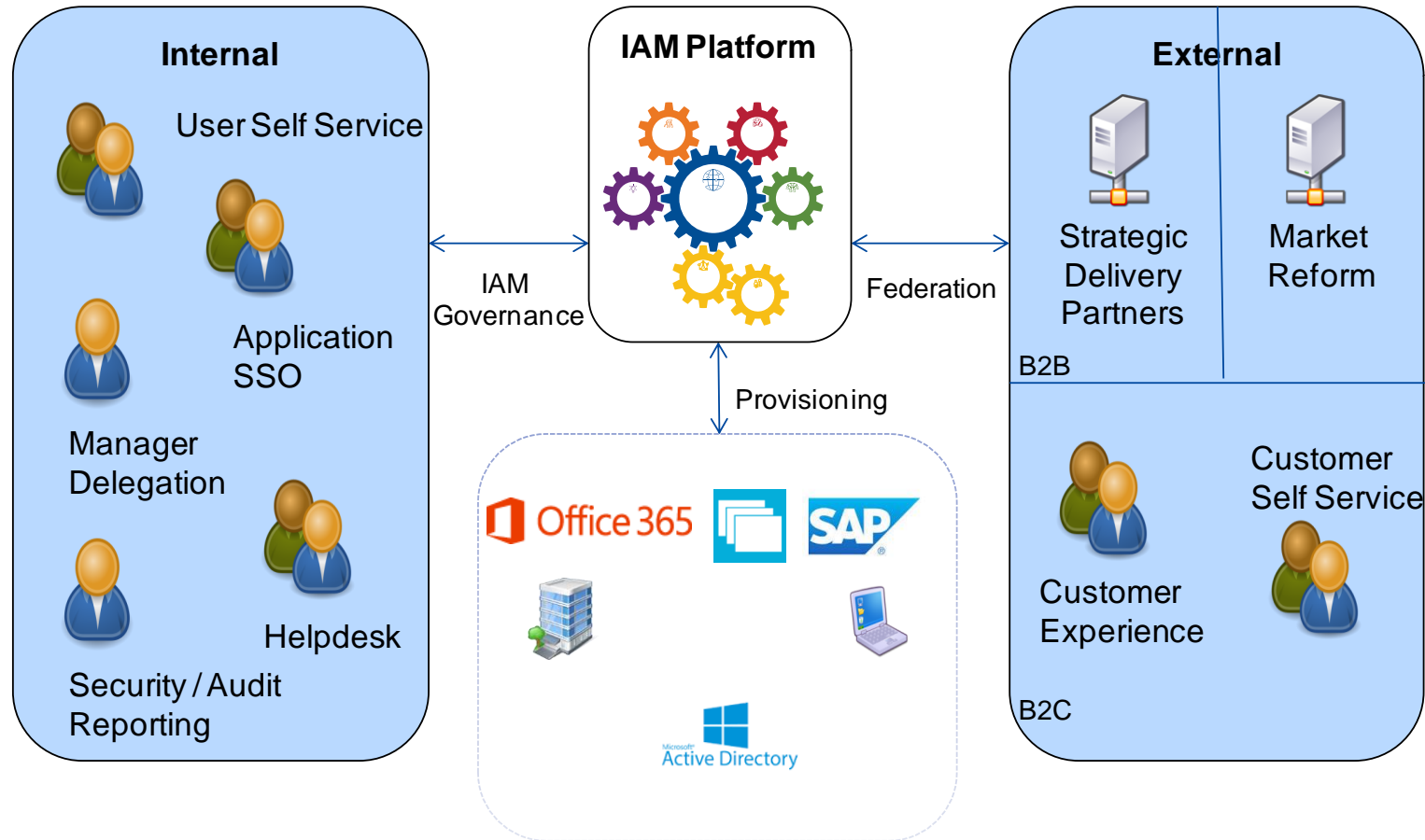
Used the IT strategy refresh as a catalyst for change



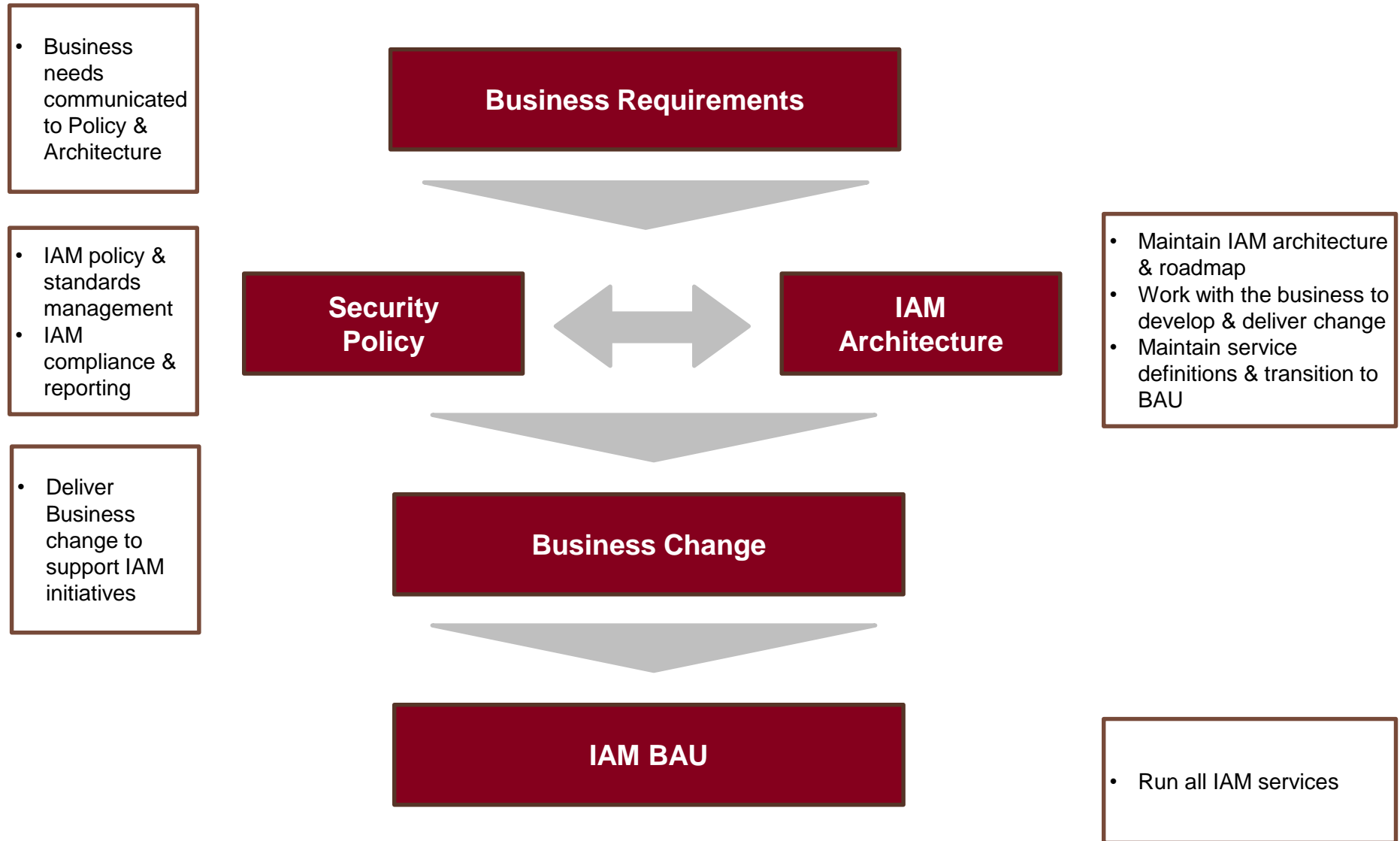
The **Identity Hub project** will deliver an Identity and Access Management (IAM) platform to **consolidate identities, simplify logins and increase security.**

Developed and socialised a clear singular IAM vision with the business

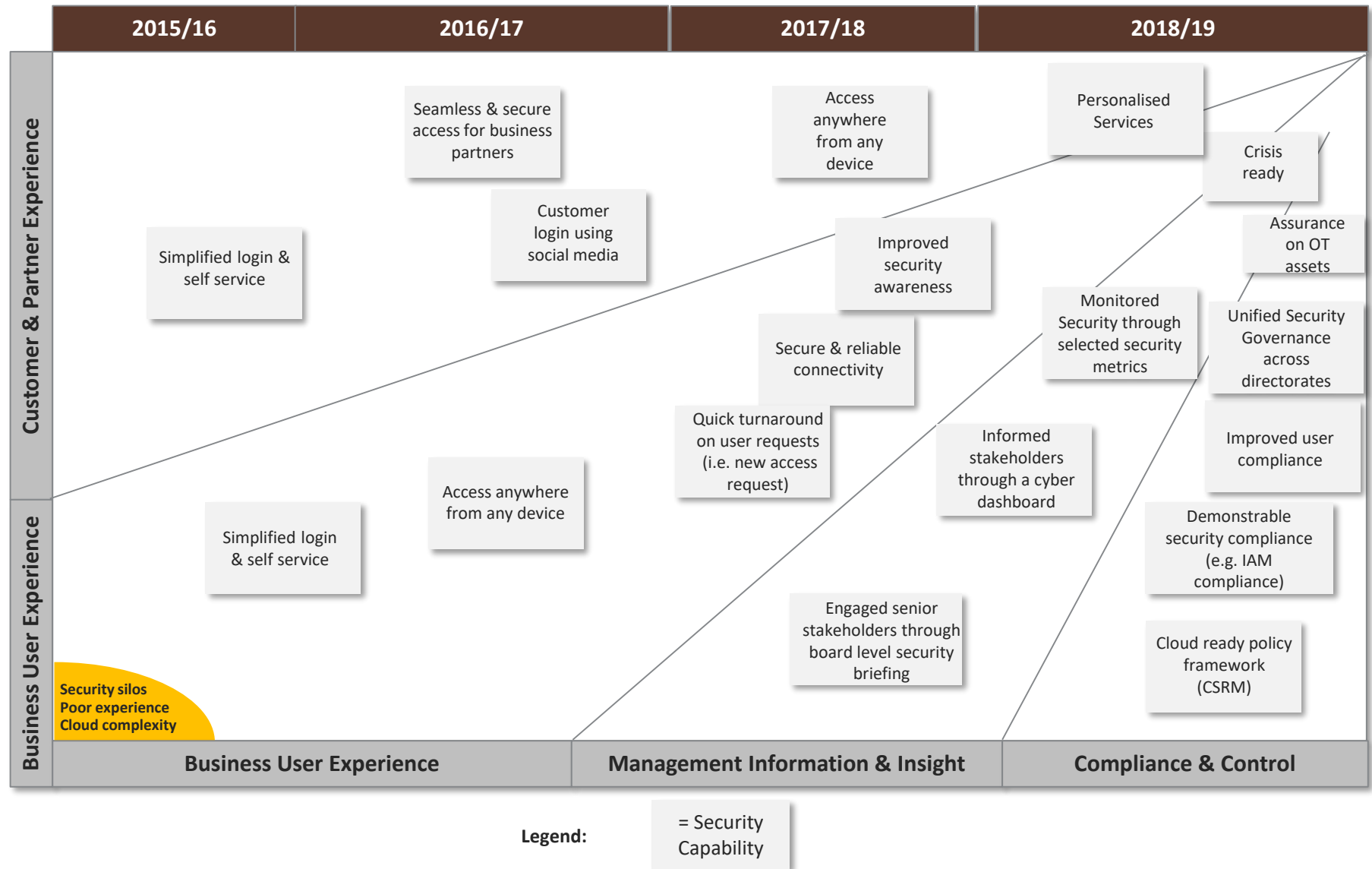
IAM Future State Vision



Designed an Identity Governance Operating Model



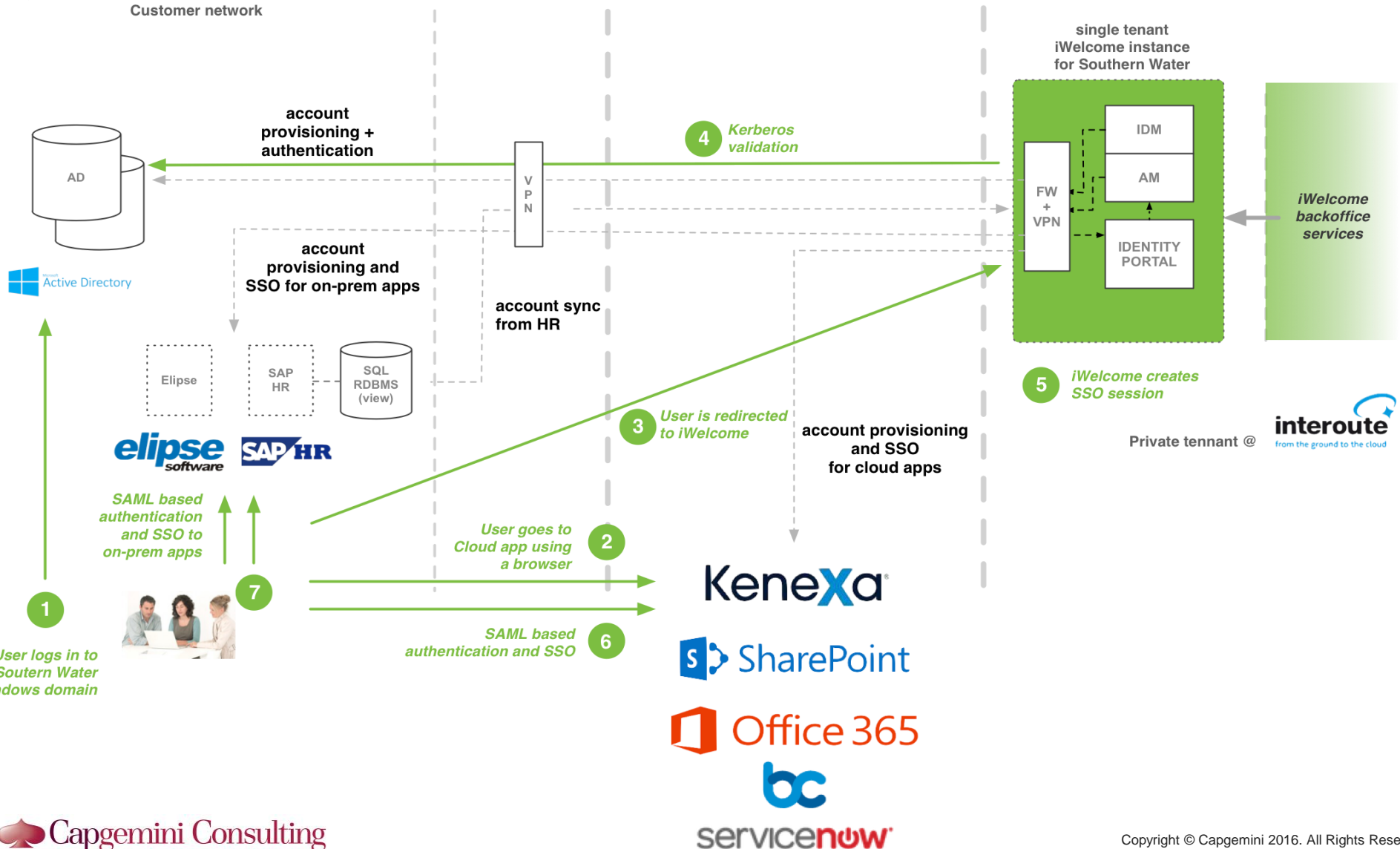
We backed the vision with a clear roadmap for delivering prioritised business benefit



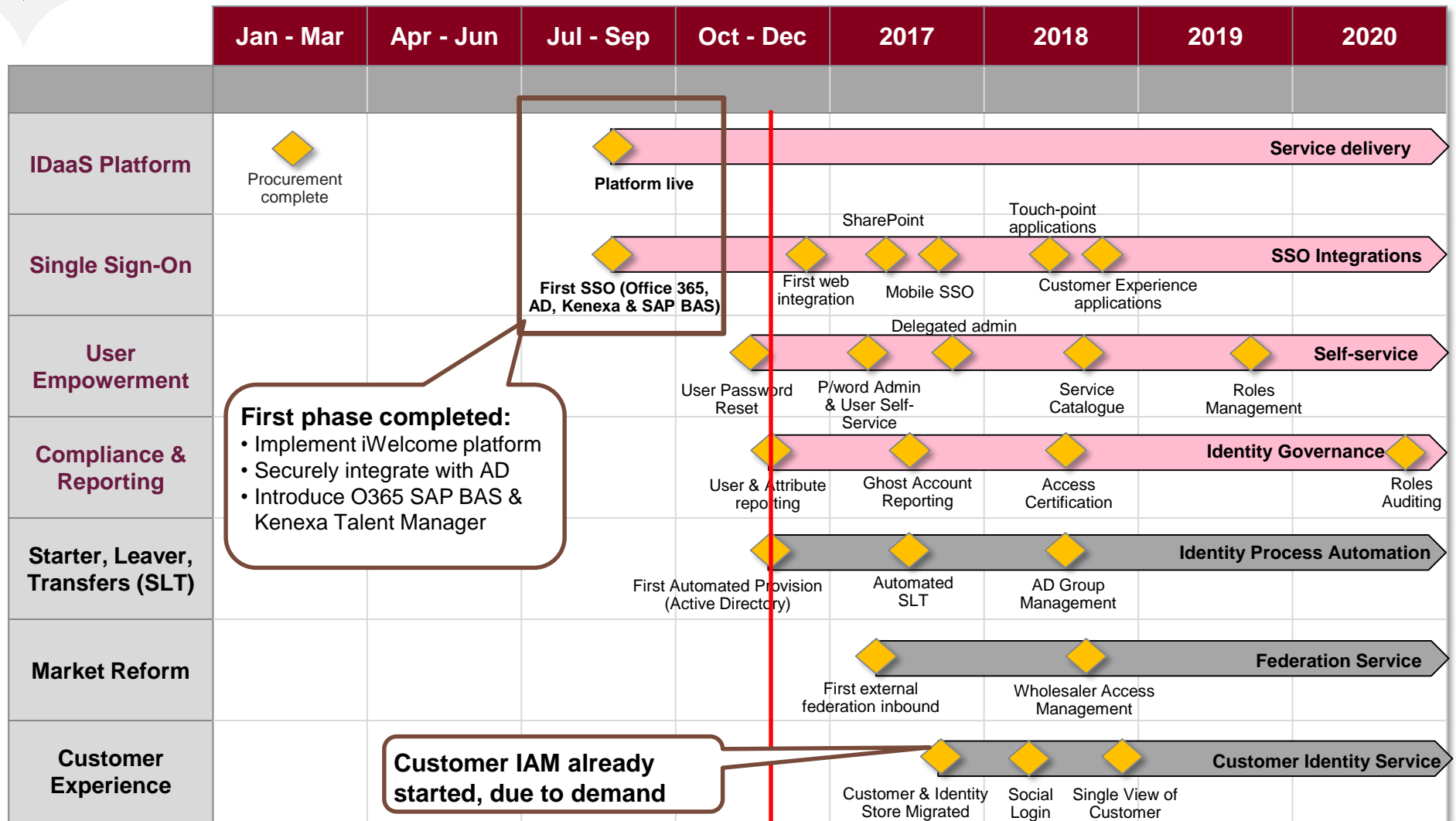
Chose an IDaaS platform that can deliver the full vision and business can pay for over time



Customer network



Created a near term programme plan to kick off the journey starting with SSO



Where we are

◆ Milestone

➡ BAU activity

➡ Project activity

At the heart of the IAM vision is a “good looking” platform with strong appeal to the end user

The image displays two overlapping screenshots of the Southern Water IAM (Identity and Access Management) user interface.

Top Screenshot (Login Screen):

- Header:** Southern Water logo on the left, a "language" dropdown menu on the right.
- Background:** A blurred image of a woman holding a document.
- Sign in section:** A "Sign in" heading followed by three blue buttons: "Authenticator", "SMS", and "Password".
- Form fields:** "Username or email" and "Password" input fields, with a blue "Login" button below them.
- Link:** A "Forgot your password?" link below the login button.

Bottom Screenshot (My details page):

- Header:** Southern Water logo, "My apps", "Self service" (active), and "Users" tabs. A user email "wouter.de.wit@iwelcome.com" is on the right.
- Section: My details**
- Greeting:** "Good afternoon Wouter de Wit !"
- User Profile Card:**
 - Login name:** [icon] Login name
 - E-mail address:** [icon] Wouter.de.Wit@iwelcome.com
 - Security Questions:** [icon] You've not set your security questions yet
- Section: Password & Security**
- Change password:** "Change password" heading, "Change your password here." text, a "Password" input field, and an "Edit" button.
- Security Questions:** "Security Questions" heading, "Please provide answers to the questions below. You will be asked to provide the same answers when you want to reset your password in case you forget it." text.
- Form:** A section titled "Please setup your security questions." with five rows of questions and input fields:
 - What is your mother maiden name ?
 - test5
 - Test2
 - Test1
 - test3
- Buttons:** "Cancel" and "Save" buttons at the bottom.

Transition to CIAM



Water and wastewater services for Kent,
Sussex, Hampshire and the Isle of Wight



At home

For business

Property & developers

Search site...



Your bill & account

Your water

Your wastewater

Your area

At home



Water-saving home visit

We are offering water-saving home visits in selected areas. Find out if you qualify



Wrap your home
up this winter



It's easy to set up
a Direct Debit

Your area

Find out if Southern Water supplies your home, check your water quality or explore what's happening in your area.

Enter postcode here...



What would you like to do?



Pay your bill



Understand your bill



Tell us you're moving

Need help?

Type your question here...



Customers often ask...

I have a water meter but my bill is





At home

For business

Property & developers

Search site...



Your bill & account

Your water

Your wastewater

Your area

At home



Water-saving home visit



We are offering water-saving home visits in selected areas. Find out if you qualify



Wrap your home
up this winter

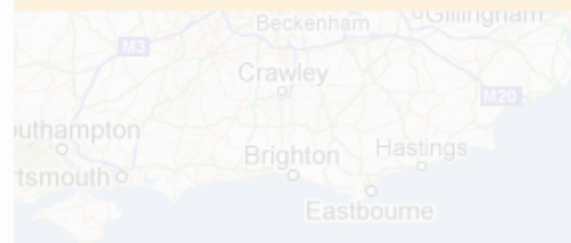


It's easy to set up
a Direct Debit

Your area

Find out if Southern Water supplies your home, check your water quality or explore what's happening in your area.

Enter postcode here...



What would you like to do?



Pay your bill



Understand your bill



Tell us you're moving

Need help?

Type your question here...



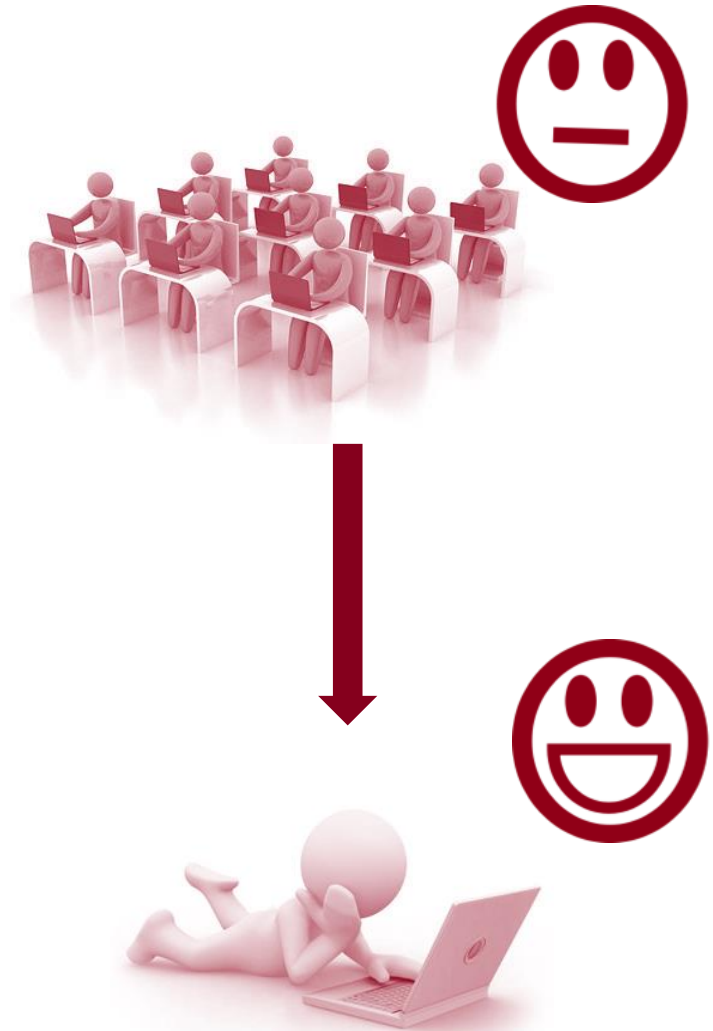
Customers often ask...

I have a water meter but my bill is

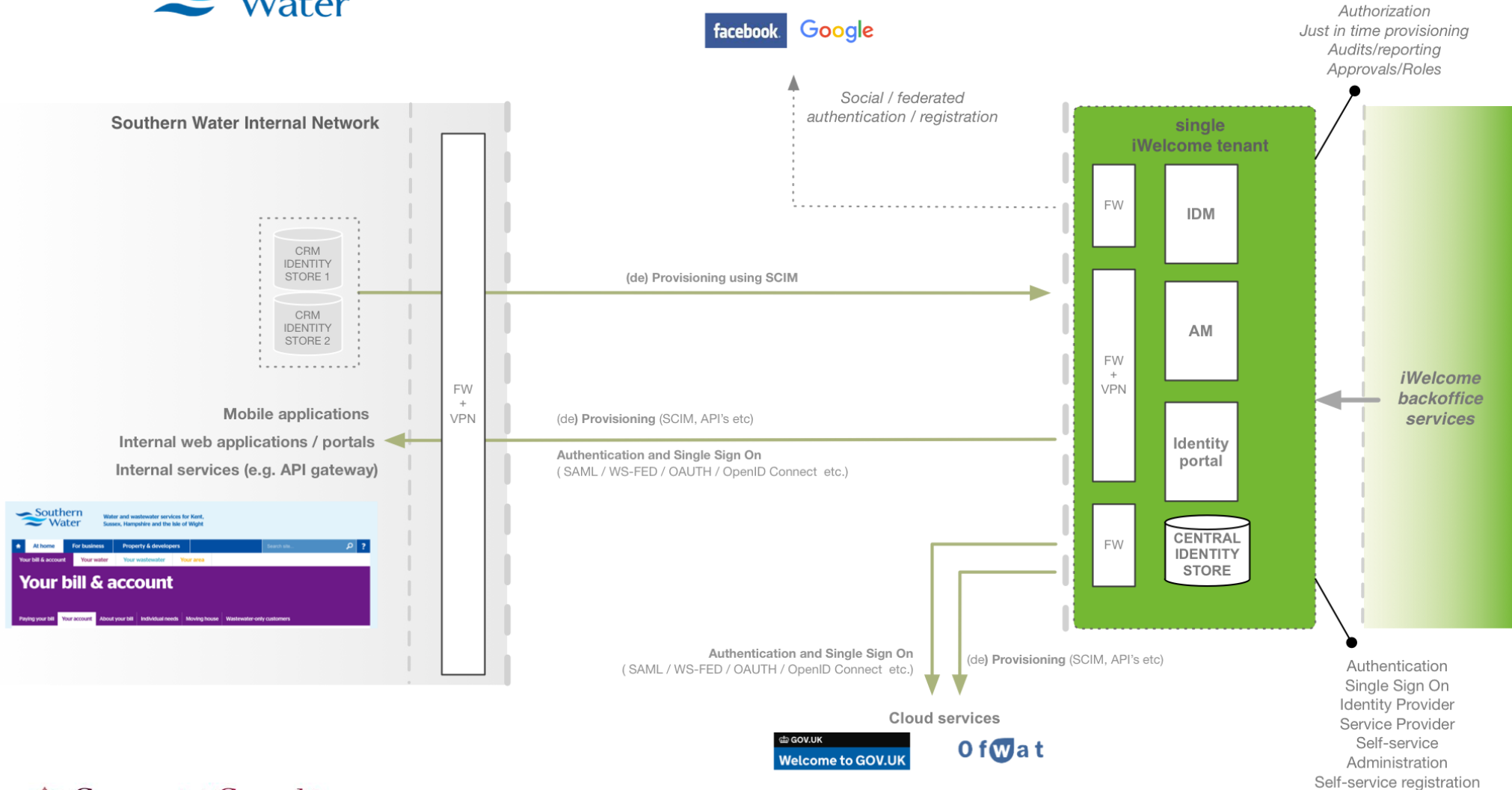


Digital transformation – “Sell less water, more efficiently”

- Implemented new CRM system
- Moving from voice to online services
- Goal: Reduce service calls & increase satisfaction
 - Today 600.000 calls per year
 - Reduce 200.000 calls (30%) in 18 months
 - Increase Customer satisfaction from 3.x to 4.8
- Implementing smart meters
- More advanced services via apps in 2017-2018



Consumers and Workforce served from ONE IDaaS



Lessons learned so far

- Consumer IAM starts in the business and is focused on digitally enabling customer services e.g. “Your water”, “Your bill”, “moving”
- Usually run teams outside for “traditional IT” such as marketing or eCommerce, mainly focused at Portals and CRM
- Hence less aware and focussed on security and privacy requirements for e.g. GDPR
- Limited contact between department delivering consumer IT and enterprise IT and likely to start with own ‘temporary’ solutions’ meeting tactical needs for a user directory
- Overall common IAM architecture & roadmap between Enterprise and Consumer needs are crucial to avoid a new island;
- Digital transformation department are yet to fully grasp the value and impact of investment in IAM for consumers
 - Access via apps and portals
 - Integration standards and API’s
 - User self service
 - Consent management
 - Social registration and logon
 - Risk based and Step-up authentication
 - Service desk support
 - Profiling
 - 99,9+ % availability
 - 24x7 monitoring
 - Security standards
 - HA, DR and DDoS
- Only once they grasp the value their Consumer IAM will truly begin BUT they already have the platform in place

CIAM centralises privacy management - compliance with the GDPR is required

GDPR Implications

GDPR requires state-of-the-art implements of appropriate technical & organizational measures, to ensure a high level of protection of the individual's personal data.

GDPR increases the requirements on individual consent giving, in particular for minors conditions on consent giving are strengthened.

GDPR pays particular attention to data analytics, profiling, free services, and digital offerings to minors.

GDPR requires accuracy of personal data processed and users to have control over their data, incl. the ability to change, transfer their data.

GDPR requires to maintain records of processing activities under your responsibility, in order to demonstrate compliance with the regulation.

GDPR increases the requirements for transparency about the processing activities, in particular at the point of data collection.

Privacy goes beyond the GDPR requirements, it's must be considered as corporate responsibility. Companies must be aware of the public sentiment.

Data security

Choice/ Permissions

Options/ Preferences

Data Quality

Privacy Registry

Transparency & Openness

Stakeholder Dialogue

Implementation Directions

Integration of ISO 27018 - Code of practice for protection of personally identifiable information (PII) in public clouds - in ISO27001, as well as database field encryption for all privacy related attributes.

Extensive consent flows during attribute aggregation and 'follow me', connected with age restriction. Family management to address consent for GDPR consent age restriction.

Preference management API/UI to register (including consent) specific data driven actions like profiling, news letters, content pref., follow me.

Full transparency of data collected and processed via MyPage and configurable r/w/rw on all attributes. Data export option available on MyPage for user as well as "right to be forgotten".

Complete logging of all changes, centrally. Export (archiving) and streaming options available of these logs (secure syslog). Data-retention is configurable to also comply to other regulations.

MyPage of a user offers a detailed graphical time-line, that can be configured to show all processing, consent, change events etc.

Constant dialogue with your customer & stakeholders about their expectations towards collecting, processing and use of personal data. Regular Data Protection Officer peer meetings.



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