Moving from the Business Strategy to Technology Strategy

(A Top-Down Approach to Strategy Development)

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Enterprise Architecture Specialist Group

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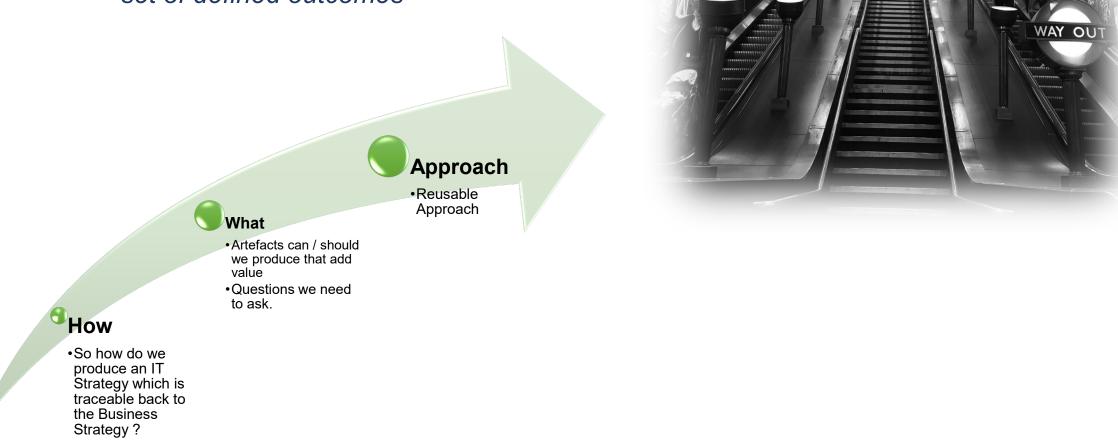
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Agenda

- Exam Question
- Precursor
- A Simple Reusable Pattern for Strategy Development
- Business Architecture / pattern Mapping
- Pattern Discussed using ING as a Case Study *ING*
 - The Global Business Strategy Extract
 - Default Words Extracted From Strategy Extrapolating Technology Themes
 - Extrapolating Technology Capabilities Assembling the Elements
- Extrapolating Technology Capabilities
- Final Message

How do we develop the ICT Strategy so that it aligns to the Mission, Goals & Objectives as documented in the Corporate Strategy ?

<u>Remembering</u> Your Strategy is in essence a request to use organisational resources (people, money etc) to achieve a set of defined outcomes

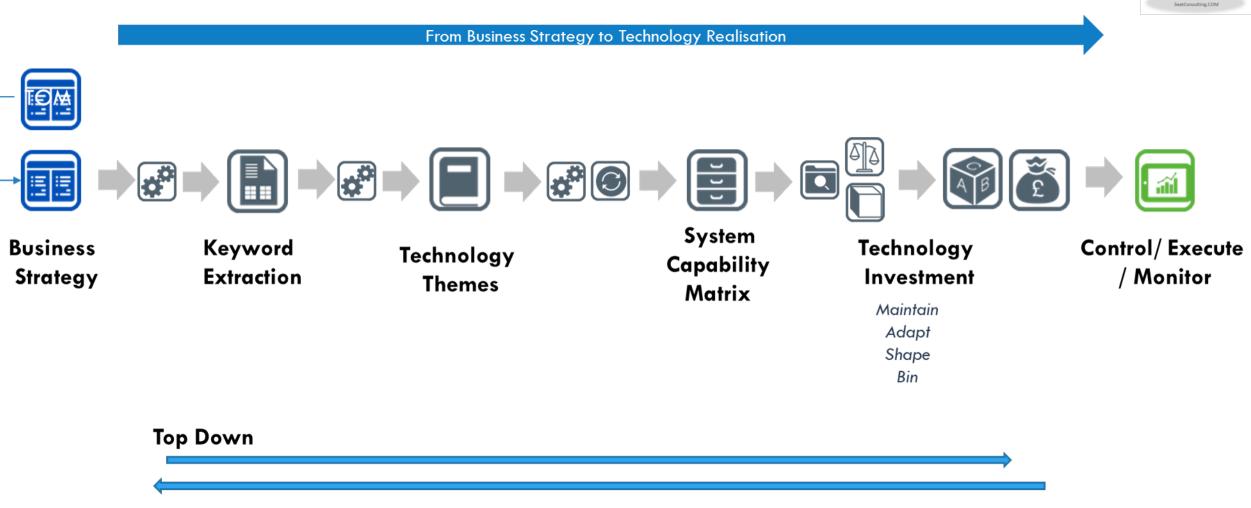


Some Precursors

- Understand the Technology <u>ecosystem</u>
- Understand the trade-offs in terms of time and capital.
- Appreciate, if any, the on-going technical debt being accrued by the business
- The Regulatory Compliance required in your markets by the Business.
- Be aware of the unknown knowns i.e. Shadow IT
- awareness of Competitor/New Market Entrants use of Technology
- Disruptive Market Forces at play in your industry
- Mandatory reporting financial / regulatory



A Simple Reusable Pattern



Bottom UP

sultino



ING ಖ

To demonstrate the use of the Pattern we will use ING the Dutch multinational banking and financial services corporation headquartered here in Amsterdam as our case.

ING's primary businesses are **retail** banking, **direct** banking, **commercial** banking, **investment** banking, **asset management**, and **insurance** services.

The documentation/direction I will discuss is based on no prior operational internal Knowledge of ING, Its Systems, Processes or People and will only refer to publicly available material (quoting source where applicable) for illustrative purposes only –

I have not discussed the following material with any ING Employee or have any prior knowledge of its operations and the examples can be applied to any similar financial global organisation.

Example Keyword Extraction



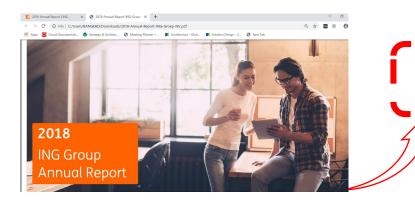
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Report of the Executive Board Corporate governance Consolidated annual accounts Parent company annual accounts

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Remuneration report

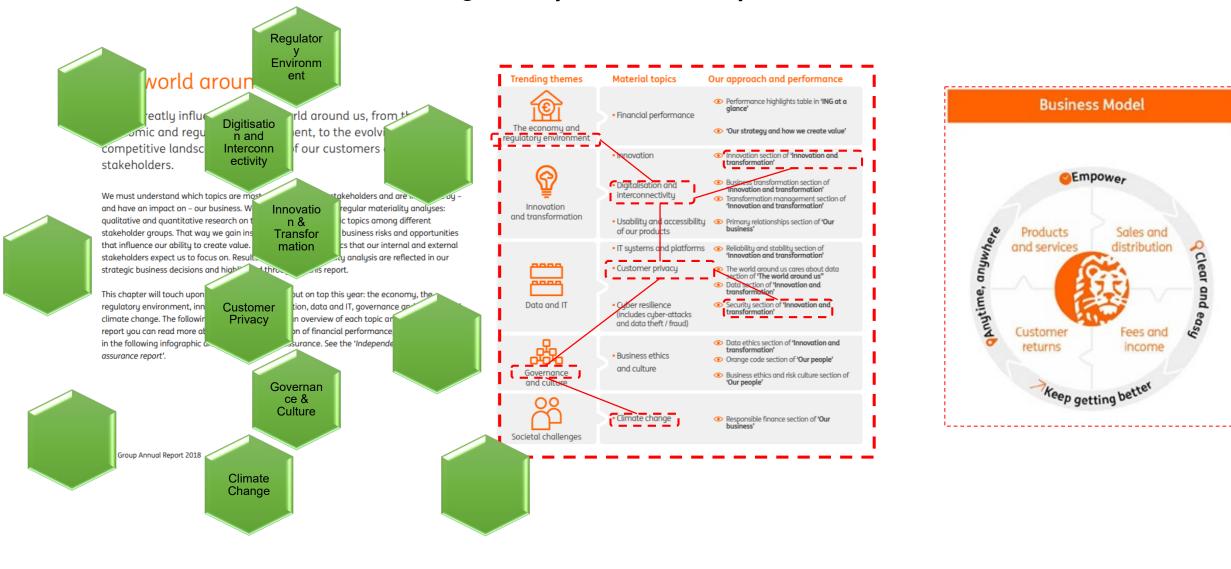
Works councils

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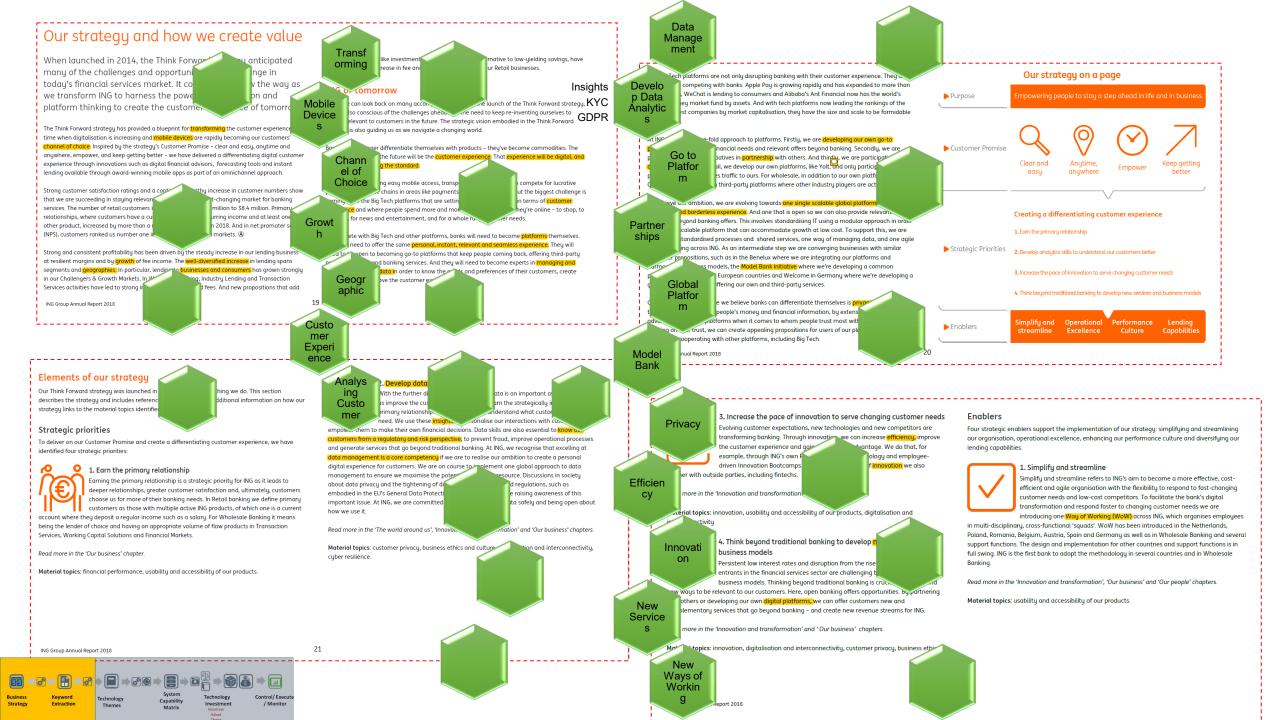
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Source : ING Website (https://www.ing.com/About-us/Annual-reporting-suite/Annual-Report/2018-Annual-Report.htm)

Looking For Key Words – To Map to Themes







2. Operational excellence Operational excellence requires continuous focus. We need to ensure that ING's operations provide a <u>semiess and flawiess customer experience</u>. Our operational excellence vision concentrates on the Customer Promise. To meet changing customer expectations arising from increasing digitalisation, we aim to converge to a single platform for financial services that will deliver a uniform

customer experience across borders. This will be based on simplified and standardised prod systems supported by modular architecture, integrated and scalable IT systems, and services. While pursuing this ambition we are also investing to provide stable IT platforms so we are there for our customers when they need us and to provide highest standards of data security.

Read more in the 'Innovation and transformation' chapter.

Material topics: IT systems and platforms, cyber resilience.

3. Performance culture

We believe there are strong links between employee engagement, engagement and business performance. This is why we continually **approperformance**: ulture by creating a differentiating employee experience and enhancing the capabilities of our leaders. By focusing on delivering a great employee experience and by stepping up our leadership capabilities we **develop is capabilities** and engagement to deliver on our purpose and strategy.

Step Up Performance Management is a comprehensive performance management process that also assesses people against ING's Orange Code values and behaviours. It focuses on managing performance on a continuous basis, including through 'continuous conversations' between managers and their reports.

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culture, ex

The Think Forward Leadership Programme (TFLP) aims to develop greater leaders and better managers who can engage staff and enhance team performance. The first phase of the programme was introduced in 2017, initially to senior leaders. It focused on the Orange Code, personal purpose and the Think Forward strategy. In 2018, It was extended to all people managers globally as the TFL Experience (TFLE), a four-day programme with follow-up learning activities. A total of 4,100 leaders and managers have so far participated in TFLP and TFLE

etherlands and Belgium we initiated 'i for integrity' in 2018, an approach aimed at a mind-set that puts integrity above all. The approach focuses on increasing owledge and equipping them to make balanced decisions when focing dilemmoomply with all applicable laws, standards and regulations, and to act with

Ilenges ING faces is finding, attracting and retaining people with the si data-driven bank. A large proportion (more than half) of vacancies at ed to data or technology skills, and this is expected to grow in the com petition in the market for these talents is force.

nelp us recruit new talents we took steps in 2018 to upgrade our careers site and global approach. This includes further developing the global employer brand and intro**torgeted cross-border sourcing** to find suitable candidates for more difficult-to-fill profiles.

In 2018, we defined a new direction to promote a more diverse and inclusive workforce, introducing 'mixed teams' and the 70 percent principle. This principle strives for 30 percent difference in team make-up. Mixed teams include all types of diversity, both visible and less visible. Ultimately, managers are responsible for building mixed teams by choosing the dimensions of diversity to focus on while also being guided by the global 70 percent principle as far as possible. At the same time, we will continue our efforts to make all people feel included whatever their background, culture, experience, religion or sexuality.

ur people' chapter.

Continuous

Focus

Performant

Platform

Thinking

Connectivity

iness ethics and culture.

4. Lending capabilities

 Provide
 To do so, we are seeking opportunities in Retail, SME and Consumer Lending segments, as well as focusing on Wholesale Banking lending growth in our Challengers & Growth (C&G) Markets businesses and in our specialised Industry Lending franchise. In 2018, we continued to grow and diversify lending at healthy margins, with net core lending growth of €36.6 billion, or 6.4 percent. Our ambition is to continue to grow profitably within our risk appetite, but given market dynamics we expect lower growth in Wholesale Banking.

 Read more in the 'Our Business' chapter.

 Material topics: financial performance, climate change.

 Develop

 Employees

Broadening and diversifying our lending capabilities to continue to grow client

vation and transformation

o fulfil its purpose of empowering people to stay a step life and in business, it must continue to be where its rs are. Nowadays, that's on digital platforms: our own lose of others. It's here we need to offer one consistently perience, one that is instant and borderless.

> by a major role in this one experience. This chapter outlines platform age. In innovation, it's how we aim to stand out fr e a better experience, one that is more personal, instant, relevon, it is what we are doing to build one ING, one digital bank with ang and one digital banking platform.

coming a platform business, or even being platform-curious, is b. But the reality is that Big Tech companies, like Facebook, Alia atform-based for over a decade. They are the success stories nually raised the bar when it comes to the user experience th to buy things, socialise, explore, learn, travel, entertain or be rms to meet their demand for goods and services. It is why pe h and keep coming back.

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Growth

Being where customers are is a big part of what makes any business successful. We have to continue to evolve if we are to earn a place in customers' lives. That means being on these digital platforms and creating our own platforms to be able to understand and serve customers better.

> ng towards plotform thinking isn't a radical shift but rather an extension of e-empower people to take control of their own situations. Like traditional connect suppliers with customers. The difference is that platforms are which can be used to achieve huge scale at little cost. And it's not just t is also suppliers who are able to create value at scale. Platforms scale f all of that, provide lower-cost structures for supplier offerings. Then he used to develop new products and services and personalise the user

sing platforms offers INS little space for building meaningful customer in making an Amazon purchase, for instance, the payment service is just a click. Secue a consumer loan? Two clicks. There's not much room for a differentiating or superior customer experience here. So ING's future depends on becoming a platform ourselves or building independent platforms. To make that happen, we have to give people very good reasons to come Something very different from what they can get anywhere else. Something that empowers to get ahead. And that's what we're aiming to do.

nain characteristics that make platforms so successful is that they provide simplicity, enience and personalisation as well as one consistent way to interact with customers.

Business transformation

To create one user experience for all of our more than 38 million customers, we have to be one ING. We need to build a single global foundation that is the same everywhere, one that has the same approach to data, the same IT infrastructure, the same processes and similar products and services.

In 2016, ING announced a series of programmes to unite similar businesses and bring us closer to one mobile-first digital platform that offers a uniform and superior customer exper-

The main business transformation programmes are

Unite be + nl (formerly Orange Bridge), to unite Belgium and the Ne across two countries, combining both countries' strengths for a more one integrated banking platform and a harmonised business model. Highlights: Created a cross-border delivery organisation, combining busi countries. A new harmonised retail organisation was launched offering e all Belgian customers and completing the first joint marketing campaign

Welcome, to digitalise ING in Germany and create a go-to financial platform offering third-party services.

Highlights: The first release of the Go2Place platform was launched among a host of features including shared navigation, full account overview, new search function, a money management tool, and a new digital current opening process for joint account holders.

Model Bank, To move Retail banks in France, Spain, Italy, the Czech Republic and later Austria towards becoming one bank; one borderless, scalable unified customer engagement platform, providing a personalised customer experience.

Highlights: The expertise of several ING countries is being combined to build a best-in-class mobile (and digital) platform based on scalable IT infrastructure. The platform will be used to serve several

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Wholesale Banking TOM, further digitalising and standardising Wholesale Banking products, processes and customer propositions across all continents.

Highlights: Approximately 18,000 customers are now using Wholesale Banking's Inside Business digital portal. The introduction of a single platform for loans and trade finance has been extended across the network, with a consolidated Financial Markets franchise in the UK, over 650 IT applications decommissioned and numerous customer experience process improvements including consistent account opening process for international corporate clients in 18 countries. Supporting these business transformations are target operating models (TOMs) uniting support services globally such as HR, Finance, IT and Procurement, and the enablers, the so-called foundations: IT, global data management, process management, shared services and ING's one agile Way of Working (WoW).

Transformation mai

Managing ING's transformation Transformation Office Transform business line and function works management method with a set strategy is executed and ING is u principles and introduces one Wa collaboration and knowledge sharing. It

Technology

Themes

Keyword

Extraction



Control/Execut

/ Monitor

iness reviews to improve planning and prioritisation, 'gated' processes and 90-day and cycles. All are designed to ensure the execution of our Think Forward strategy and ultimately lead to a better impact on customers and other stakeholders.

Running a bank-wide transformation is complex. It involves many interdependencies between different workstreams and may involve trade-offs in local priorities or autonomy so that we prioritise what is best for the bank on a global level. Our transformation management method naking, resolve issues when they arise and re-plan. All this needs to be

System

Capability

mising any adverse impacts and keeping the bank safe, secure and compliant

Investmen





Technology

27

28

Information technology remains crucial to ING's platform ambitions. IT enables programmes such as ING Private Cloud and TouchPoint Architecture and contributes to major strategic programmes.

The IT target operating model introduced last year is in line with the Think Forward strategy. It aims to create speed, scale and security as well as cost efficiency and growth, with one purpose, one common backlog and one technology platform.

The quality of our people makes a difference in the quality and efficiency of our services. We aim for a global, collaborative workforce of highly skilled engineers meaning that we assess and calibrate our engineering workforce using one engineering profile. In 2018, more than 80 percent of our internal engineering staff have adopted one engineering profile and more than 60 percent of our workforce has implemented one Way of Working, both marking an increase from a year earlie

TouchPoint Architecture (TPA)

TouchPrint Architecture is an open ou foundation that enables ING to become a o s one of the foundations for ING's Think Forward strategy. Producers ca n combine these services into scalable business propositions acr

> dardise ING's banking applications and supports the creation o r constraints and limitations. This modularity is a big step towards a latform that offers customers everywhere a consistent experience and de from unlocking global scalability, TPA facilitates innovation across ts and accelerates time-to-market. The use of web components provided eased during 2018 and contributed to one user experience across the sed, for instance, in the Model Bank programme.

eloper Portal which makes it easy for internal developers to bank's digitisation globally. Selected APIs are also available for w and innovative customer experiences.

ce tore and process data and IT services such as mobile phone ake towards giving customers a consistent experience in ndardises ING's IT infrastructure, simplifies and streamlines ind brings an automated and self-service infrastructure to developmen has reduced time-to-delivery of infrastructure from an average of m n an hour. It also reached 100 percent availability in 2018 allowing tomers much quicker. In 2018, we expanded the service portfolio in lobal adoption of IPC, from around 3.5 percent of total global infrast ercent by the end of 2018.

and stabilitu

Customer

Experien

Omnicha

nnel

Manade

Decision

S

Security

er experience relies on ING always being available when and where customers bitions, we continually strive to improve the availability of online 2018, ING recorded 99.7 percent¹ weighted system therlands and Belgium. In addition, system as 99.9 percent. A Private

> e use it to improve processes and <mark>ma</mark> ul customer insights that help ING to u data-driven products that personalise and

em availability for 2018 does not yet include the recent integration of Record E

Report 2018 ment

Cloud

nal excellence

mers we'll keep getting better. One way is by simplifying and standardising endrocesses Some processes are internal, such as HR and Compliance, others impact rtgages, lending and payments. Making them easier will lead to a igher quality processes and greater efficiency.

Shared Service

re beina centralised in shared service centres. In 2016, ING set Business Shared Services BV (IBSS) to consolidate all such king legal entity. Currently, IBSS has four foreign branches. Th daily banking operations support. Branches in Katowice and NG Tech services. The Manila branch is a multi-functional cent with an extensive operational platform targeting Wholesale

cess Management

ocess Management (GPM) department was established in 2016 to improve the rience for the bank's markets, including Market Leaders, Wholesale Banking, as well & Growth Markets. It does this by introducing a single, global approach to imprg pcesses and a common way to manage those processes and standardise ag

ievements in 2018 include designing global mortgage, consumer lending (processes. GPM also put in place a global process infrastructure with gl

Open Technolo

gy

However, raw data in itself has little value. To be meaningful, it needs to be sorted, harmonised and put into context. To do this in an efficient and effective way, ING developed a data management strategy in 2016 to standardise data definitions and data models. This strategy ensures the availability, quality, integrity, usability and control as well as global governance of our data. A feature of this strategy was the introduction, in 2016, of common data language ING Esperanto.

privacy

rust banks with confidential information that they expect us to keep safe. It is important aintain that trust and comply with our legal obligations around data protection, which rom country to country. We are transparent about what we do with the personal data of employees, suppliers and business partners, and only process it for specific business Our approach can be summarised as: the right people use the right data for the right

m 25 May 2018, ING has been subject to the data protection requirements outlined in the EU General Data Protection Regulation 2016/679 (GDPR). In 2013, ING implemented data protection requirements on a global scale, through its Global Data Protection Policy (GDPP). The GDPP has been implemented in each country where ING operates and is being updated to reflect GDPR requirements. To know more about what personal data ING collects, what we do with it and who we share it with, go to our Privacy Statement on www.ing.com/18ar003 or any local ING website.

Data ethics

ING's data ethics approach is an integral part of our behaviour and decision-making and is embedded in ING's Orange Code. It consists of data ethics values and principles that are applicable for the whole organisation. Both global and local data ethics councils have been introduced to advise ING business units and help ensure that complex queries or dilemmas relating to data ethics are dealt with properly.

Way of Working

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To respond quicker to changing demands and customer feedback, encourage an innovative mindge employees, ING's one agile Way of Working (WoW) unites employees in functional teams. End-to-end responsibility of tribes and squads empowers asily and effectively across the organisation.

> in the Netherlands, Poland, Romania, Belgium, Austria, Spain and esale Banking and COO Finance. The design and implementation for ng. ING is one of the first banks to adopt the methodology.

ultures is a challenge that requires a behavioural shift, quided by our rences between countries are challenging but not unsurmountable. This n trust an important component, also tends to be more difficult for gers than those on the working floor. Special leadership training programmes organised for local leaders to prepare them for such behavioural change. We've also organised monthly bootcamps to train Way of Working ambassadors from the countries and business units

> he diaitalisation of business processes, to make it easier for customers to do same time, it recognises cybercrime as a major threat in all sorts of areas. For tegral part of our strategy to make customers aware of the risks that are out al solutions for Wholesale Banking clients, while Retail customers are provided our digital channels and interaction with our apps.

professionalisation and automation of criminal organisations remains a g use of online services, with some less careful with personal data, makes it Training and awareness of employees is a crucial part of ING's preventive

measures. Our all-staff online integrity programme is regularly updated with the latest cybercrime trends and prevention measures. In addition, special 'risk days' are organised for staff, highlighting specific risk themes and how to be resilient against them.

To fight cybercrime, ING also maintains a strong global cybercrime alliance with the financial industry, law enforcement authorities, governments and internet service providers.

'White hat'- or ethical - computer hackers are invited to share their observations using ING's Responsible Disclosure programme as published on ING.com.)

Cybercrime resilience

Distributed Denial of Service (DDoS) attacks are increasing in size, frequency, and co attacks against Dutch banks have increased in magnitude and new techniques cont Global developments are monitored in close cooperation with other banks and gove institutions. Preventive measures are in place for ING data centres and organisation DDoS attacks is continuouslu tested.

The 'threat' landscape and 'advanced persistent threat' indicators are closely monitored. Preven.

measures are taken where needed. Cyber-resilience reporting is part of standard risk governance processes.

Cubercriminals are also increasingly using advanced malware to gain access to the IT systems of banks and their customers. New gateways to access the internet for users and applications have been implemented to strengthen malware resilience and to prepare for open banking under the European Payments Directive (PSD2).

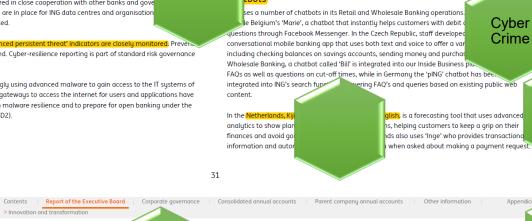
Artificial intelligence and robotics

ING is accelerating the integration of robotics and artificial intelligence to help customers and ING remain a step ahead. Customers increasingly are using Al-supported services such as Amazon's Alexa and Google Home. They also expect more predictive capabilities in their products and services, so meeting that customer demand is important.

The bank established a Global Analytics Unit in 2018 aimed at speeding up analytic capabilities and transforming ING into a truly data-driven company. Examples of recent projects include machine learning in anti-money laundering and transaction monitoring, the use of chatbots and voicebots, se of text mining techniques to improve efficiency in back-office operations and risk models Irive the efficient use of capital.

tbots

31



Innovati How we innovate on Innovation culture

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32

the customer

ING uses a structured process called PACE to accelerate inn combination of Lean Start-up, Agile Scrum and Design Thinking me units and ING Labs participated in an Accelerator programme. The PACE Accelerator is a 12-week programme that speeds up time-to-market by testing ideas for new products and services and validating them with customers through experimentation.

gramme was introduced to teach employees how to innovate in In 2017, the PACE into a hands-on programme to teach employees in 10 lependent way. By the end of 2018, 6,941 employees 🥤 Spain used the PACE methodology to improve the ig processes in depth from their perspective. This revea and not from the point of view of someone wanting t designed. Business benefits as a result of the new

courage employees to come up with new ways to improve ompete for a place in one of our ING Labs accelerators. In 2018,

⁴⁴ We want to be latform for

Custom

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Experie

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Process

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Open

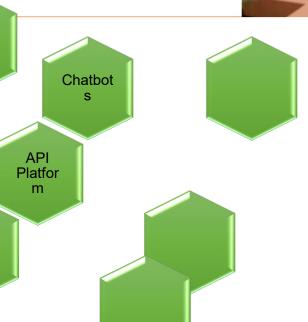
Banking

"Open banking is a crucial enabler for ING's platfor unch of the ING Developer Portal in May 2018 was an important summer this journey. Here external developers can access ING's application programming interfaces (APIs). These are pieces of software that allow applications to communicate with each other.

n banking platform brings together producers and consumers of APIs and ollaboration with partners to co-create the best user experience possible. mple is ING's Payment Request API. Making it available on our platform ther organisations to re-use it to send payment requests to their own

m is to inspire developers and make it easy for them to find and use APIs so they can create awesome customer applications. Based on their needs, I shape the platform's customer journey, improving its features and user experience.

"Our ambition is to become the go-to API platform for financial needs, offering the best and most relevant products, even if some of those are not our own."









The use of robotics is widespread throughout the bank, with ING in Poland, in particular, responsible for 700 of the 1,200 robots currently in use.

To ensure consistent use between ING countries, a global scripters community has been formed to share information and best practices.

Innovation

Innovation is a strategic priority for ING. It is important that ING not only transforms into an innovation-enabled organisation, but also increases the number of adjacent and disruptive innovations in the market.

For ING, innovation is about the three Cs: empowering customers and creating a differentiating experience, taking ING's culture of innovation to the next level and connecting ecosystems to boost innovation



Default Words Extracted From Strategy

Keyword

Extraction

Technology

Thomas

Capability

Matrix

Control/Execut



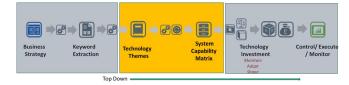
Extrapolating Technology Themes

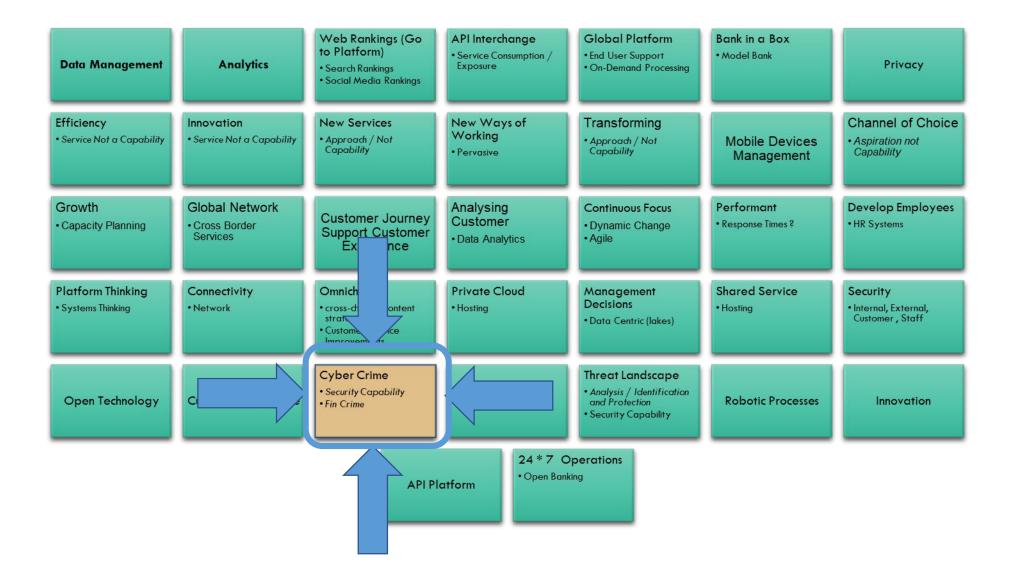
Strategy

Data Management • Collection • Extraction • Transformation • Load	Develop Data Analytics • Insights(Big Data)	Go to Platform • Service Exposure	 Partnerships Service Consumption / Exposure 	Global Platform • Follow The Sun Support Model	Model Bank	PrivacyCustomerSystem
Efficiency • Cost • People • Process	 Innovation Product Services Internal 	New Services Disruptive Agile fast Delivery 	New Ways of Working • Pervasive	Transforming Market?	Mobile Devices • Mobile Banking	Channel of Choice • Social Media
Growth • Capacity Planning	Geographic •Cross Border Services	Customer Experience	Analysing Customer • Data Analytics	Continuous Focus • Dynamic Change	Performant Response Times ? 	Develop Employees • HR Systems
Platform Thinking • Systems Thinking	Connectivity Network 	 Omnichannel cross-channel content strategy Customer Service 	Private Cloud Hosting 	Management Decisions • Data Centric (lakes)	Shared Service • Hosting	• Internal, External, Customer,
Open Technology	Customer Experience	Cyber Crime	Chatbots	Threat Landscape	Robotic Processes	Innovation
₩	Image: Second	API Pla • Definitio • Manago • Sharing	on Oj ement Bar	oen nking		

Extrapolating – Technology Capabilities



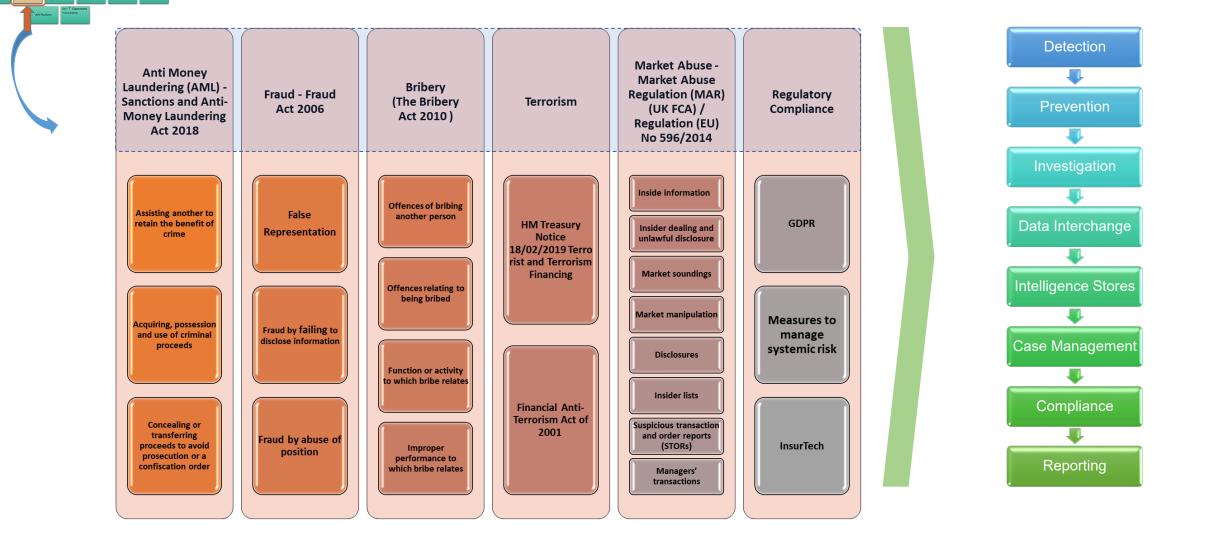




Example - Financial Crime example for Domain / Capabilities Mapping

Mobile Devices Management Performent *Response Treas 7

tinuous Focus transic Change



Technology Investment

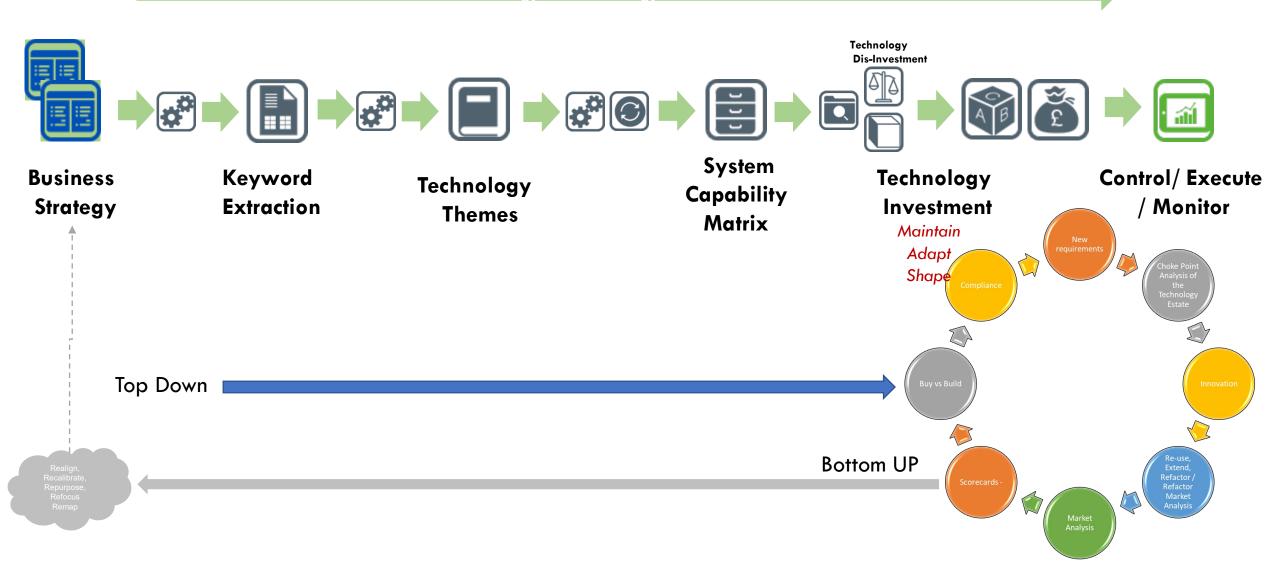
/ Monitor





Assembling all the Elements

From Business Strategy to Technology Realisation / Executable Plan



Example Table of Contents

		Part 2- Technology Strategy		
Strategic Objectives	 Part 1- Business Drivers Assessment – Strategic / Operational Initiatives Value Streams 	 Current Technology ecosystem Shadow IT Issues Drivers for Technology Transformation & Change Suppliers / vendors 		
 Strategic Objectives Background Purpose of Docume Intended Audience Intended usage and lifecycle Related documents Management Summary 	 Transposing the Business Themes into Technology Themes Automate Innovate Collaborate Optimise – Kill Complexity 	 Canvas Capabilities Definitions Channels 		
	 Architecture Principles Governance Business IT Policy & approach 	 scenario(s) Transition architectures Appendix Systems Inventory by Domain Maturity Levels Guide Acronyms 		

		0			
			to technology Realisation		
Business Strategy	Keyword Extraction	Technology Themes	System Capability Matrix	Technology Investment Maintain Adapt Shape	Control/ Execute / Monitor
	Top Dow	n			
				Bottom UP	



Abridged

- Target Operating Model / Business Strategy (Corporate / Functional) provide the drivers for the Technology Strategy
- Technology Themes allow the Business to have Traceability between the ICT and the GOALS of the Organisation
- Dissecting the Themes to map to Future, Current and Innovation Capabilities that drive the agenda of the business forward at the least unit cost
- Splitting these capabilities into buckets allow the ICT BUDEGTS to me managed further
- Execution and keeping the lights on is the enabler for the business to continue functioning
- Top Down approach is NOT the same as Bottom up Expect different results

Final Message

 Wise Rulers : Not restricting themselves to dealing with present threats but using every means at their disposal to foresee and forestall future problems as well

- Niccolò Machiavelli

Know your Environment – Internal / External.

Thank You



- : <u>www.s-ea-t.com</u> (Tools, Papers Downloads)
- : <u>https://dalbanger.wordpress.com/</u>
- : dal@s-ea-t.com



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