

OFFICIAL



Police**ICT**



POLICE Delivering pace that scales

CYBERALARM

Innovation and new capability – Policing the new frontier

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ORIGIN

LANDSCAPE

FUTURE

GIFT

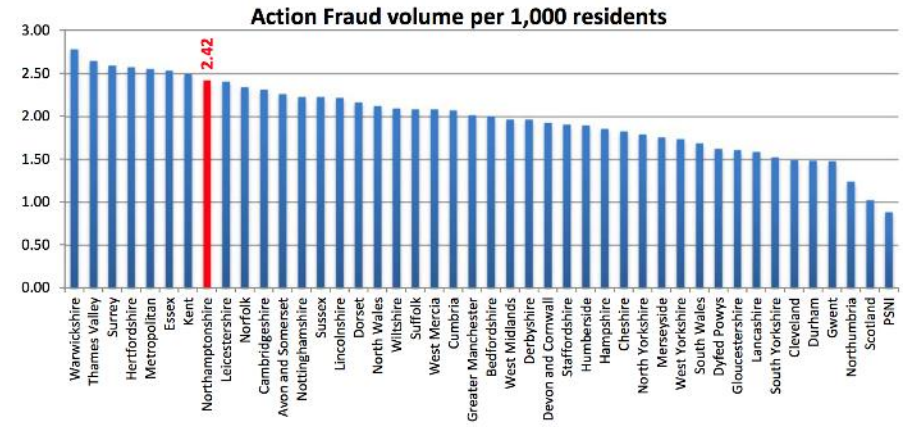
ORIGIN



WHY NORTHAMPTONSHIRE

Crimes

Northants has an abnormally high rate of reported cyber and fraud crime, despite being the 34th largest force it is 9th on the ranking of reported crimes per 1,000 residents with over £7m in estimated victim loss.



3,774

TOTAL CRIMES REPORTED
APR 2018 TO SEP 2018

↑↑↑

+13%

£7M

TOTAL VICTIM LOSSES
APR 2018 TO SEP 2018

↑↑↑

+8%

68%

OF REPORTS WERE
FROM BUSINESSES

>

32%

OF REPORTS WERE
FROM INDIVIDUALS

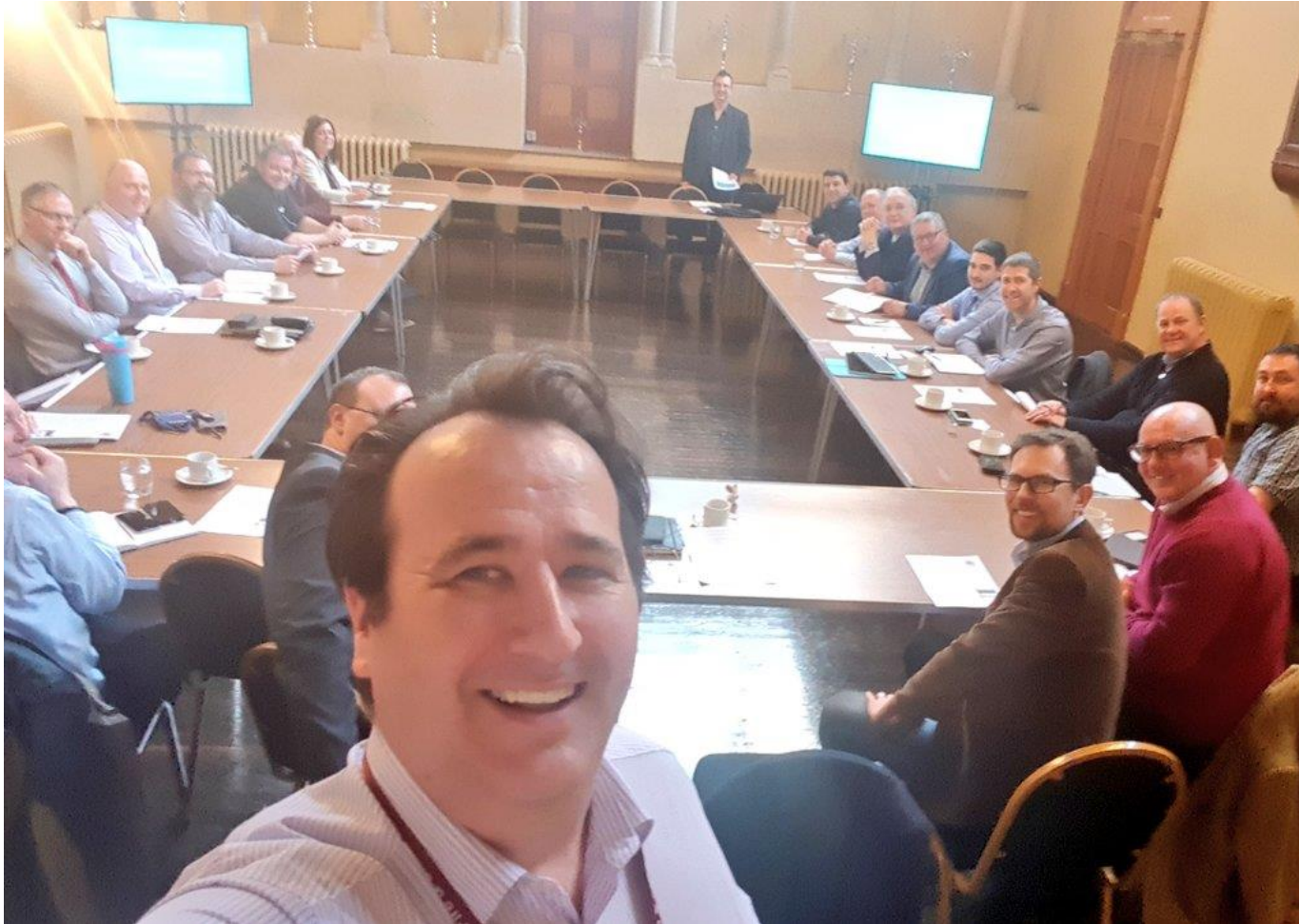
People

Northamptonshire Police had both Chief Constable and Police Fire & Crime Commissioner, and OPCC transformation lead with focus on delivering digital capability. This in turn was supported by former CC Peter Goodman, NPCC Cyber Lead, now Commissioner Ian Dyson of City of London Police, National CIRO

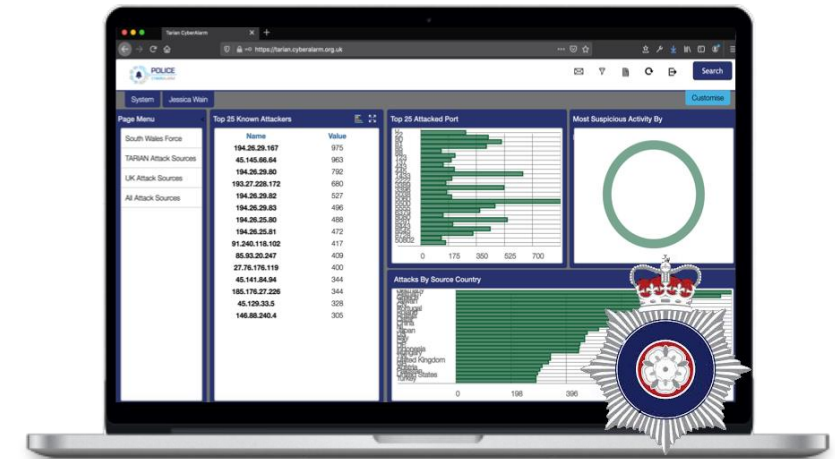


PRACTITIONER LED REQUIREMENTS

Northants Cyber Security Forum – National Solution



- Simplify/Automate Reporting
- Intelligence Feeds
- Vulnerability Scanning
- Stakeholder Validation
- Evidence need for additional investment



LANDSCAPE



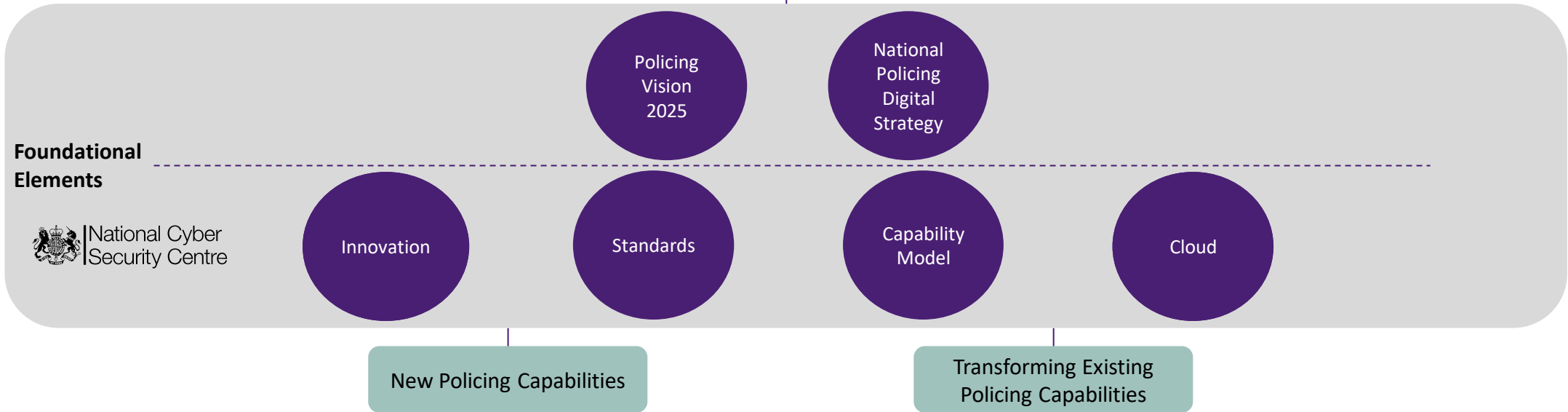
THE DIGITAL CHALLENGE AND OPPORTUNITY OF UK POLICING

Challenges



20k Uplift

Opportunities



FUTURE

NATIONAL POLICING DIGITAL STRATEGY



DIGITAL, DATA AND TECHNOLOGY
STRATEGY 2020-2030

CONTENTS



DIGITAL STRATEGY OVERVIEW

Our digital ambitions and priorities for the next 5-10 years



Seamless citizen experiences



Addressing harm



Enabling officers & staff through digital



Embedding a whole public system approach



Empower the private sector



INNOVATION & CLOUD ARE FUNDAMENTAL TO DELIVERING THE DIGITAL STRATEGY



New Policing Capabilities

Transforming Existing Policing Capabilities

Enablers set out in the National Policing Digital Strategy

Modernised core technology

1. Develop and execute a nationally coordinated transition to the cloud.
2. Update our network capacity to ensure our move to cloud is not barred by prohibitive costs or poor connectivity.

Risk and security

In the future we will exchange more data and information with partners, adopt new connected technologies and move to cloud-based infrastructures

Transforming the PoliceTech market

1. Horizon scanning capabilities to inform adoption of evolving disruptive technologies
2. Strategic partnership model with suppliers to work more collaboratively in designing policing solutions

Ambitions of the National Policing Digital Strategy

1 Seamless citizen experience

We will deliver seamless, digitally enabled experiences. The public will have more choice in how they engage with us, using channels, media or devices most relevant to them. We will be able to connect citizen interactions, information and data across departments, and across forces to build a more credible and richer intelligence picture, all whilst maintaining public trust by ethically acquiring, exploiting and sharing their data.

2 Addressing harm

We will harness the power of digital technologies and behaviours to identify the risk of harm and protect the vulnerable in the physical and digital world. We will deliver earlier, more precise and targeted proactive policing approaches and early interventions through the application of digital technology.

3 Enabling officers & staff through digital

We will invest in our people, from leadership through to the front-line, to ensure they are equipped with the right capabilities (knowledge, skills and tools) to deal with increasingly complex crimes. We will establish digital leadership and ways of working to allow our workforce to focus on critical and value-adding activities.

4 Embedding a whole public system approach

We will foster a philosophy of openness and deepen our collaboration with our public sector partners to jointly design and tackle complex public safety issues - sharing data insights and making use of digital tools to work more effectively across the public safety system, ensuring we do so in an ethical way to safeguard public trust.

5 Empower the private sector

We will strengthen our relationships with the private sector to empower it to appropriately share in public safety responsibilities. The private sector, and the users of its services, have always shared responsibility for elements of public safety and, as technologies become easier and more accessible, there are new ways to safely empower those with an active desire to help.



DIGITAL STRATEGY - CYBER LINKS TO EVERY CHALLENGE

Our digital ambitions and priorities will be underpinned by data and technology enablers

Data

**Modernised Core
Technology**

Risk and Security

**Strategic Alignment and
Design**

Connected Technology

**Digital, Data &
Technology Talent**

Ethics

**Transforming the
PoliceTech Market**

**Culture, Skills and
Structure**



WORKING IN PARTNERSHIP WE ARE STRONGER



Partner Network [Selection of active partners]



Innovation Opportunities

Seamless Citizen Experience

- e-Signature service
- Process Automation - *Cyber*

Addressing Harm

- Sentiment Analysis
- Cognitive services
- Analytics
- Online Harm
- Location Services

Enabling Officers and staff through Digital

- Learning & Development – *Cyber*
- Service & Change Management
- Recruitment – *Cyber*
- Frontline Digital Mobility – *DII*
- Cloud Services – *Secure by design*

Embedding a whole public system approach

- Network & Connectivity Management
- Integration
- Open Standards / API's

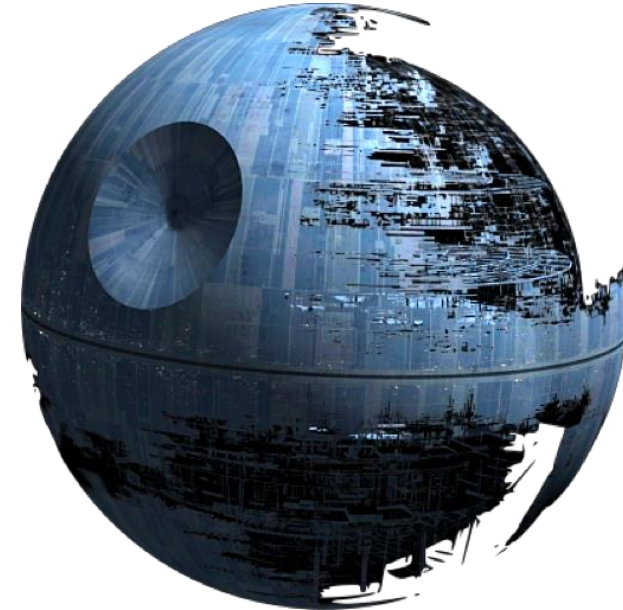
GIFT

<https://medium.com/wardleymaps>



GCHQ: BOILING FROGS?

Technology organisations need to change radically to survive increasing technical and business disruption

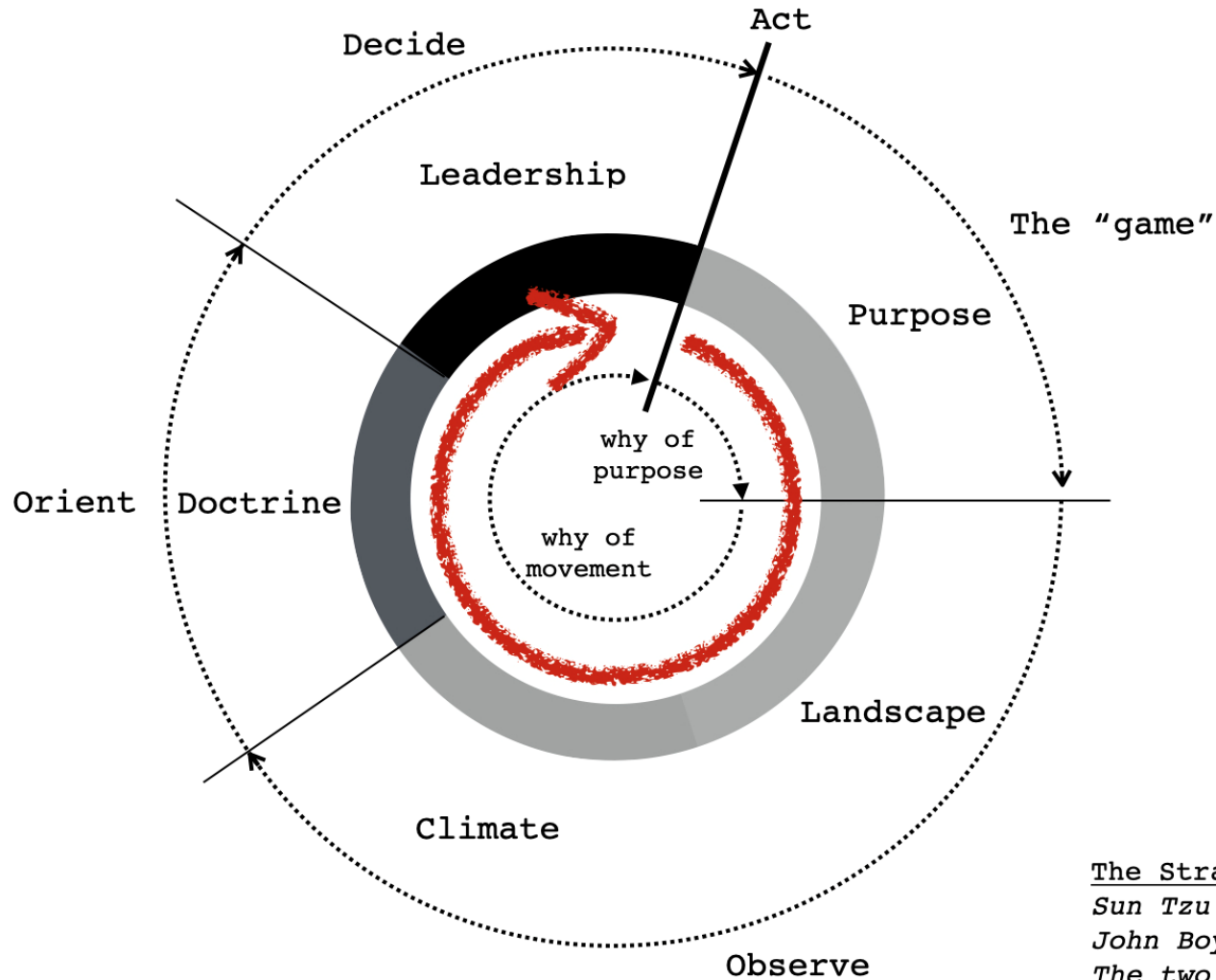


Don't build Death Star's they get blown up



ADAPTIVE & RESPONSIVE STRATEGY

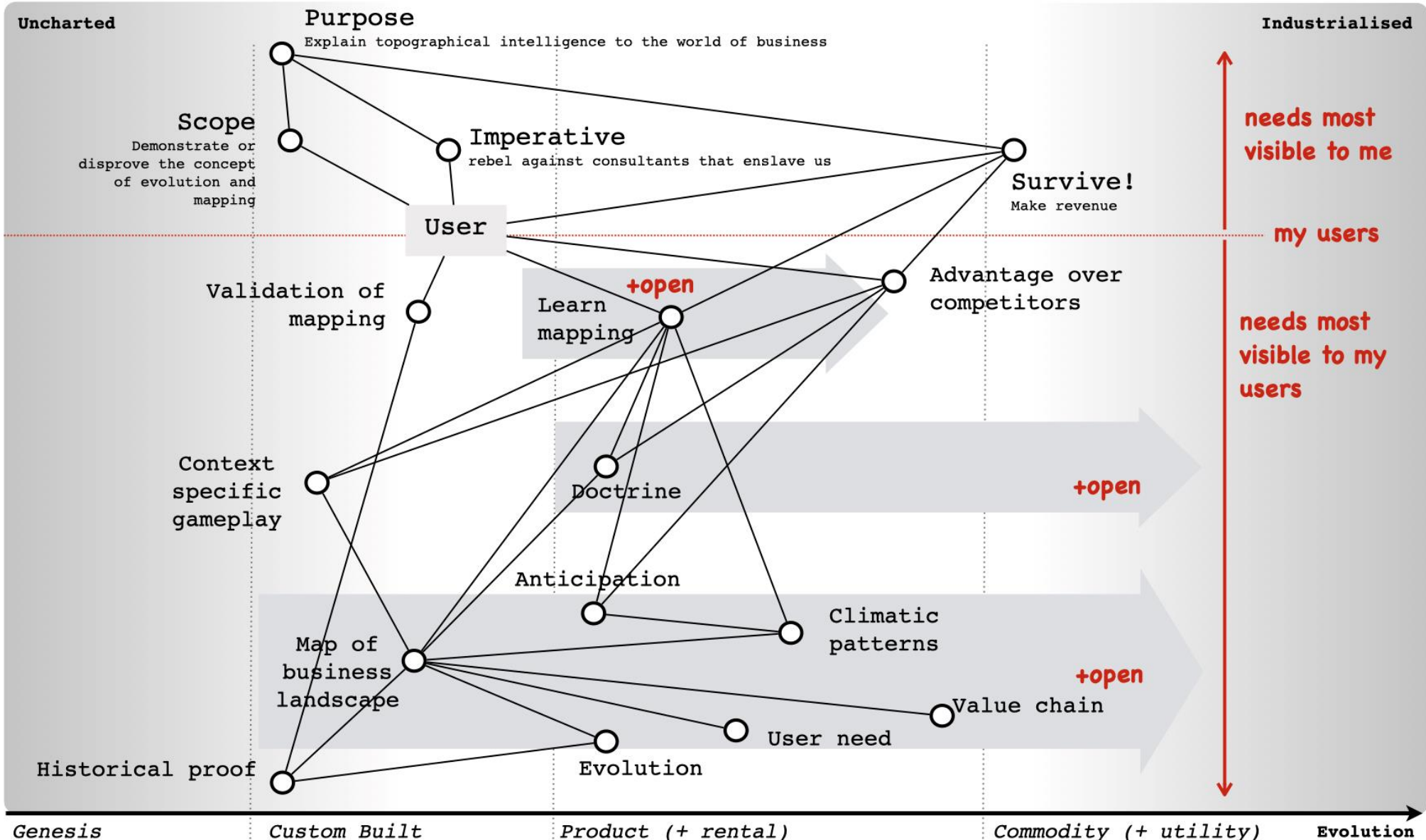
Use of Wardley Mapping to deliver situational awareness of a complex environment



The Strategy Cycle
Sun Tzu's five factors
John Boyd's OODA loop
The two types of why



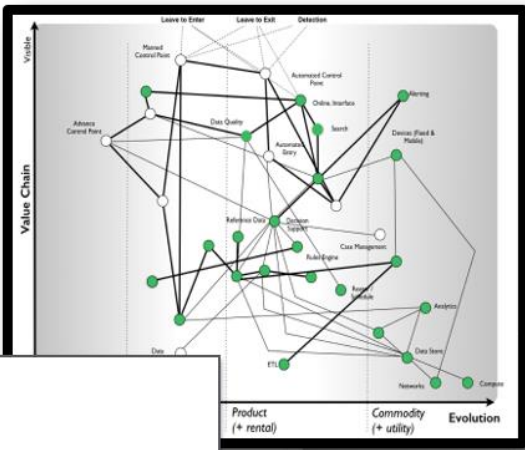
LEARN MAPPING, USE MAPPING



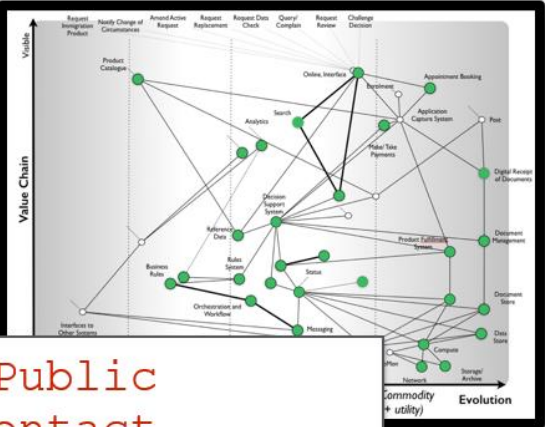


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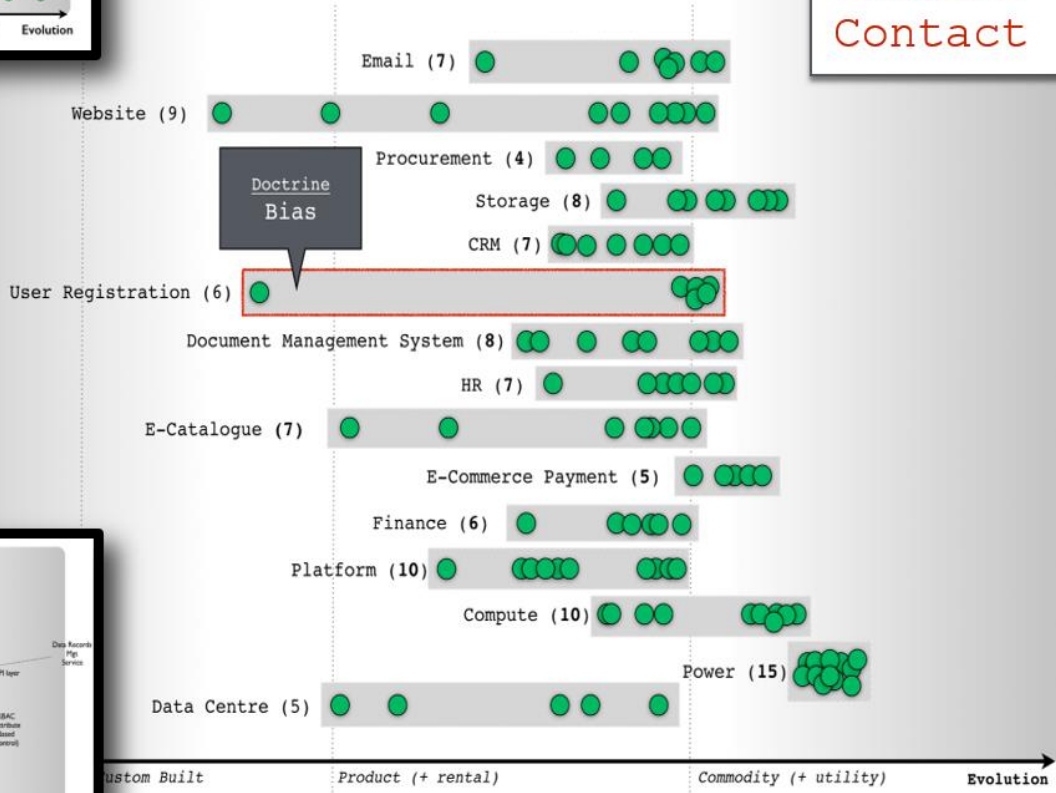
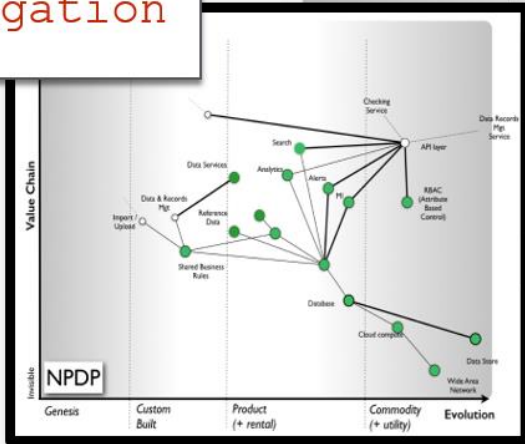
+CT



+Public Contact



+Investigation



Doctrine Bias

MAPS ARE ILLUSTRATIVE ONLY



ACCELERATE, LOWER COSTS AND DE-RISK PROJECTS

