



EA on the Front Line

Support to Op Herrick

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Enterprise Architect

Agenda



1. The Challenge

Coalition
Environment
Speed of Change

2. Architecture Process

Requirement Solution Transition

Model

4. Measurement

Live Service

3. Governance

Method Rules

Continuous Improvement

Challenge



- Information Centric Warfare
- Tempo
- Complexity and Constraint





Physical Environment – connectivity and facilities



Theatre Realities – its hard



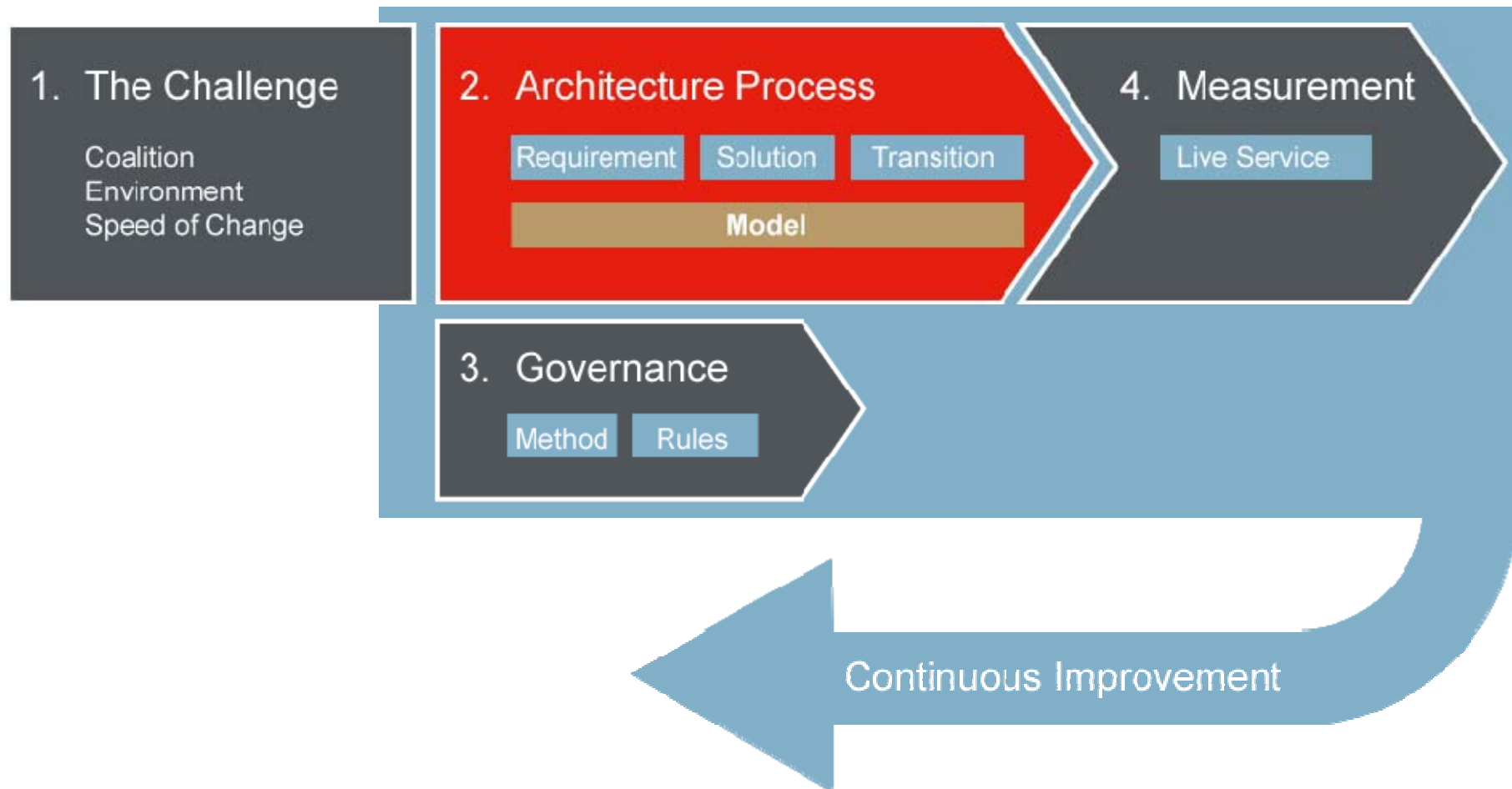
How does that translate into ICT Projects



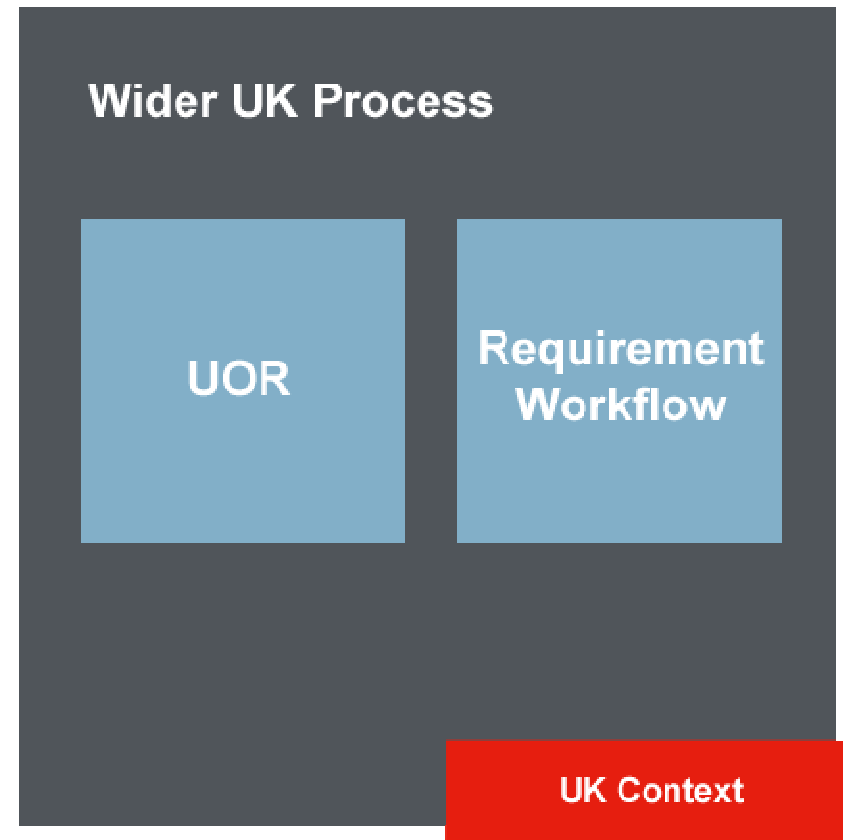
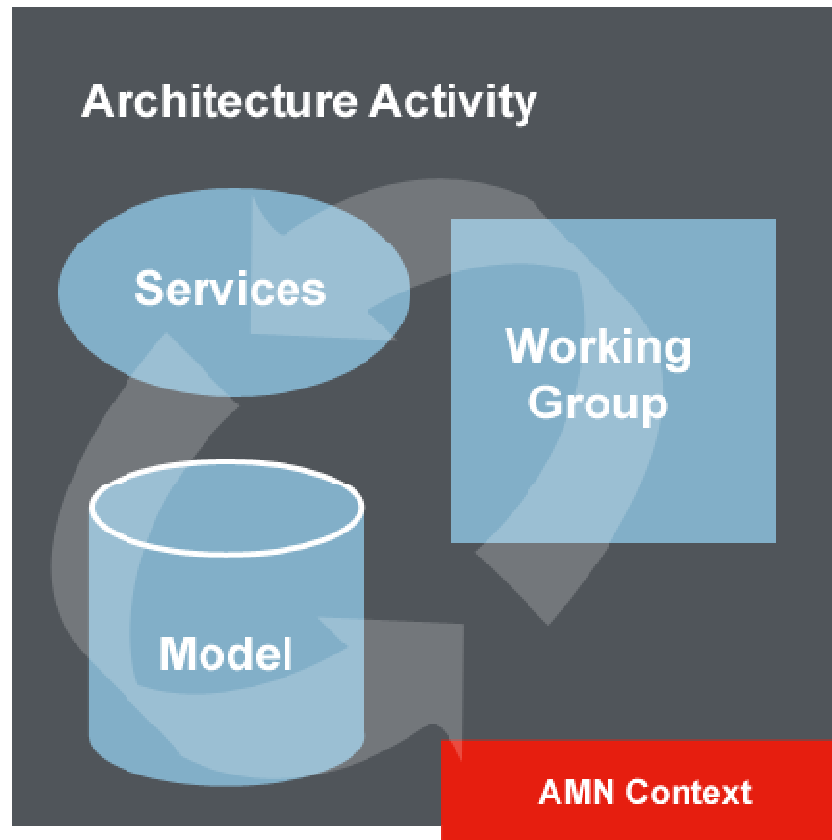
- Introduction of new Application software, information and interoperability
 - New versions and applications introduced all the time
- Site creation, expansion and relocation
- Network changes and improvements
 - Major deployments of new networks
 - Upgrades/re-architecting
 - Continuous network laydown optimisation
 - Working around day to day failures
- Re-architecting of IT solutions
- Dealing with Staff churn due to Relief In Place



Agenda



Architecture Process and Model





AMN Service Portfolio

Military Business Process services within the portfolio



Links

OVERTASK Software Delivery

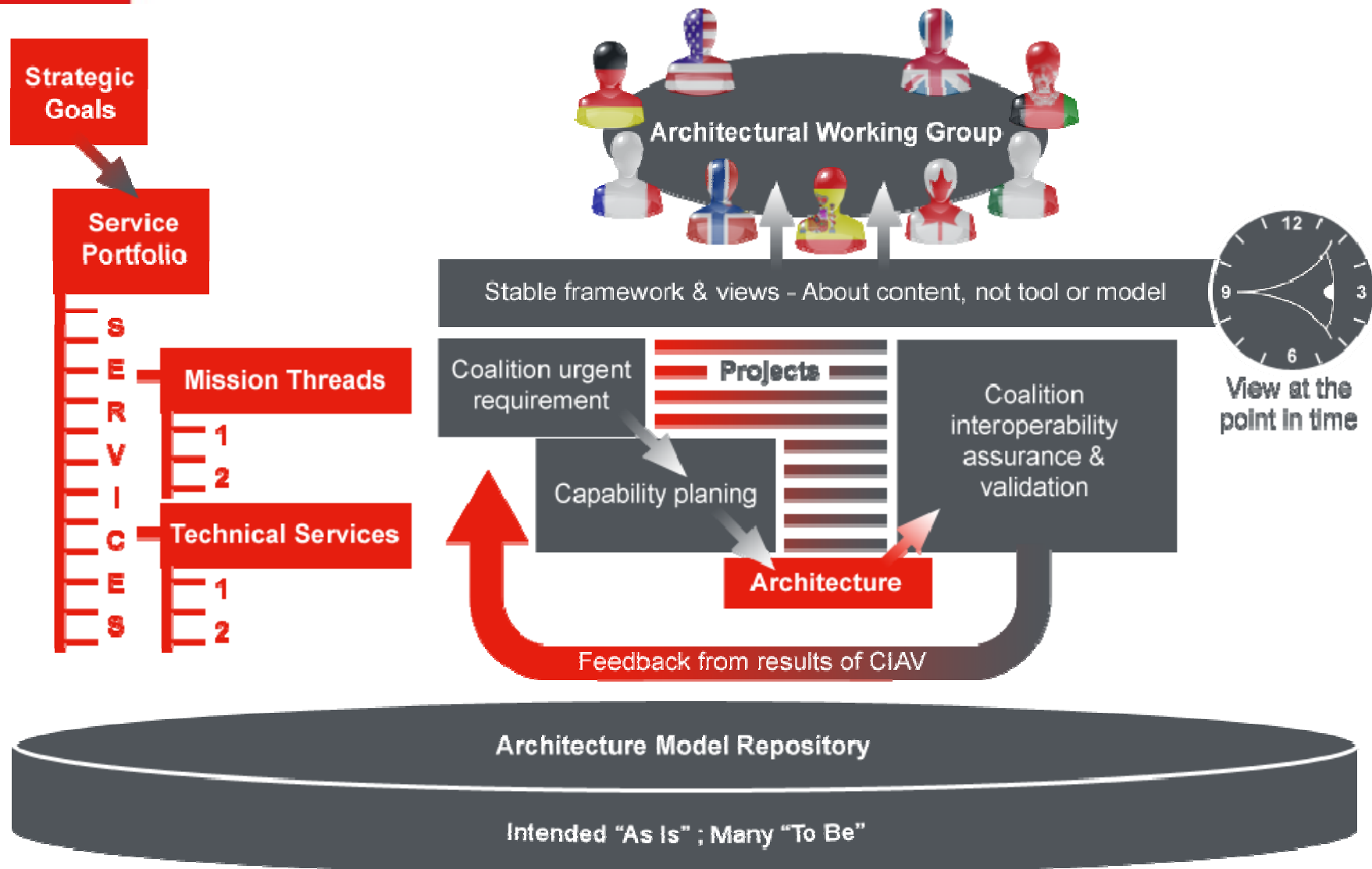
Major Infrastructure Software Loads by Service

Service and Technical Supporting Management Services

AMN Current Applications v Service matrix

Exploitations

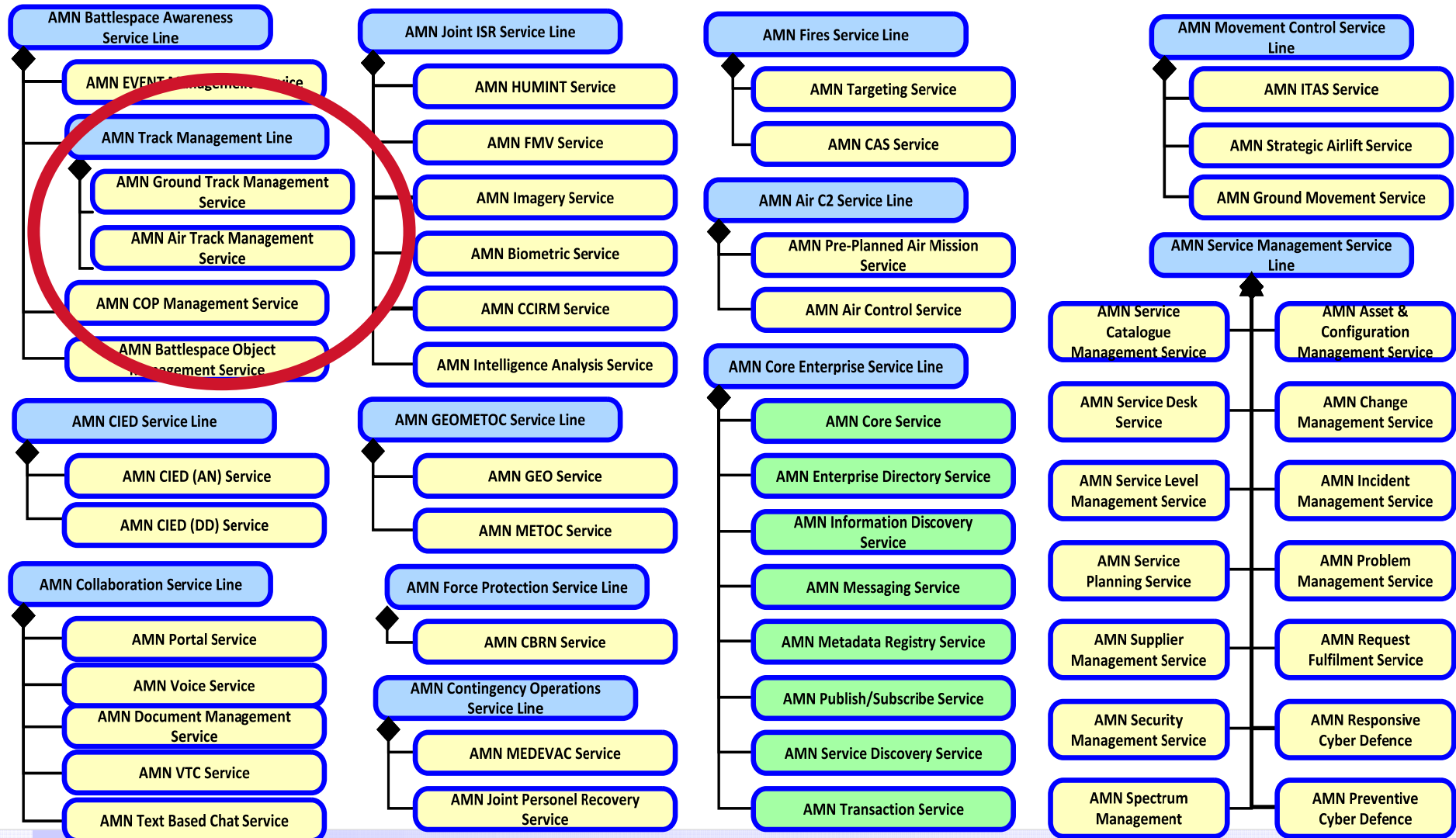
AMN Architecture Concept





AMN Service Portfolio

Military Business Process services within the portfolio



Links

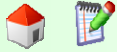
OVERTASK Software Delivery

Major Infrastructure Software Loads by Service

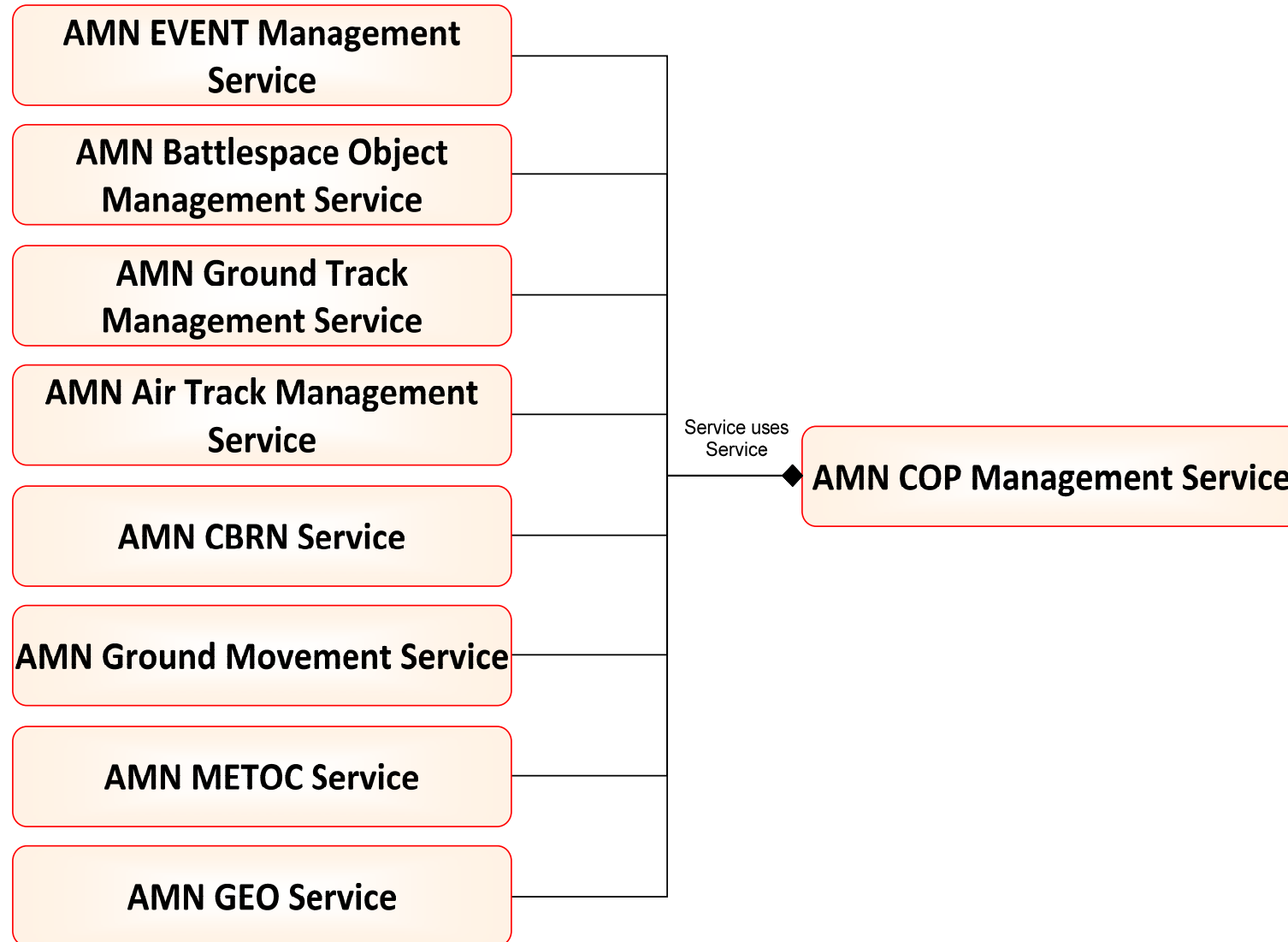
Service and Technical Supporting Management Services

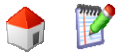
AMN Current Applications v Service matrix

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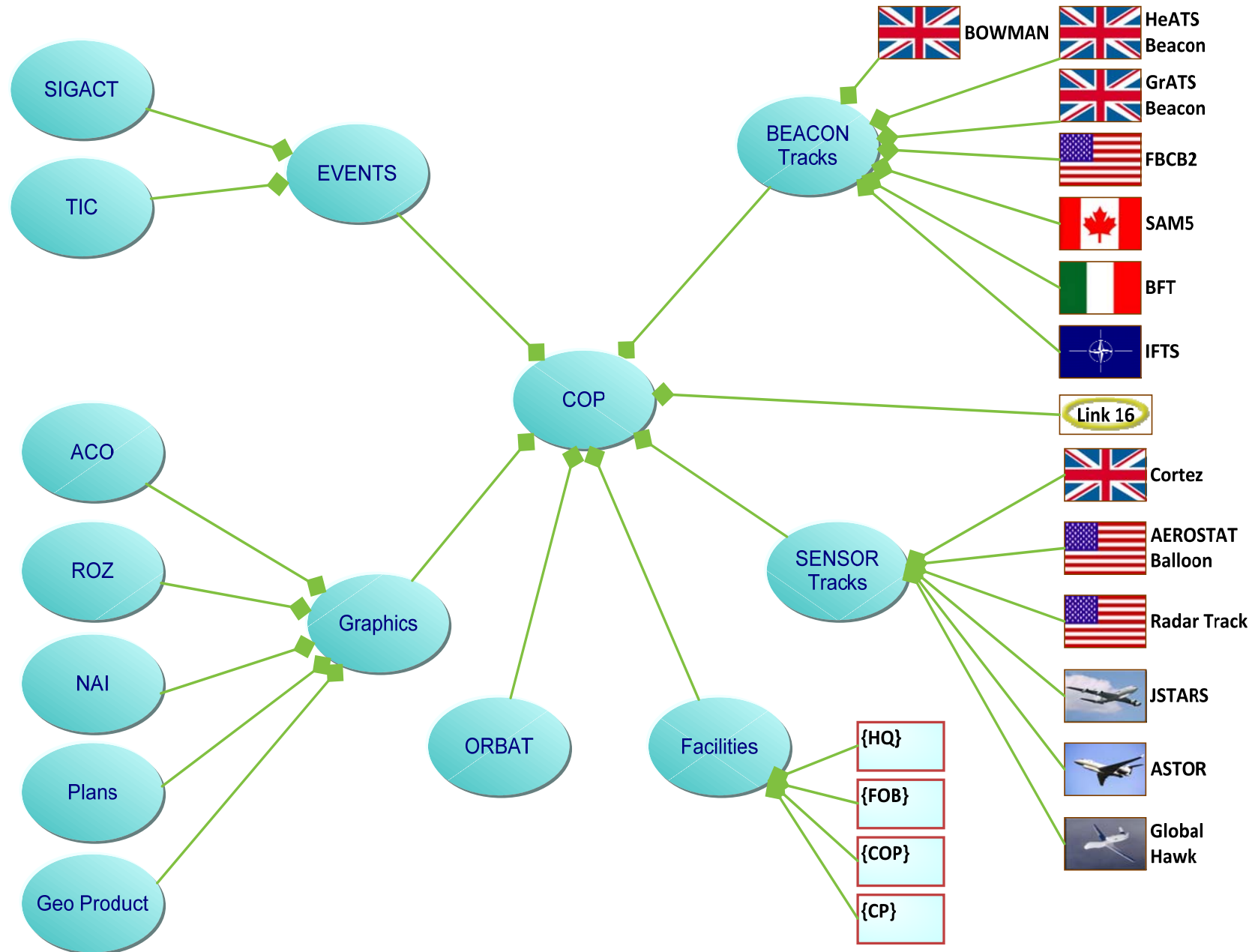


COP Management Service Composition



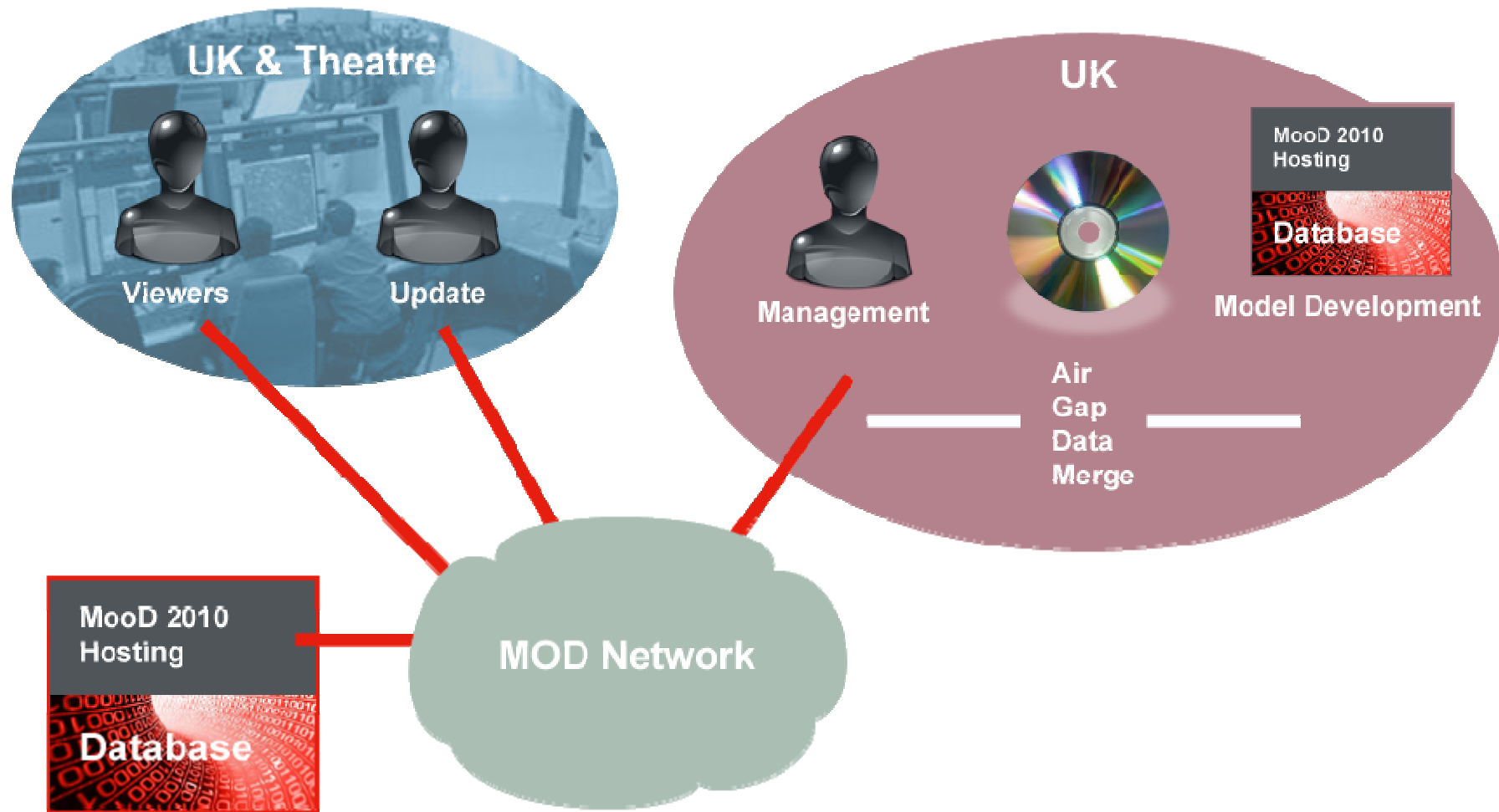


COP Sources

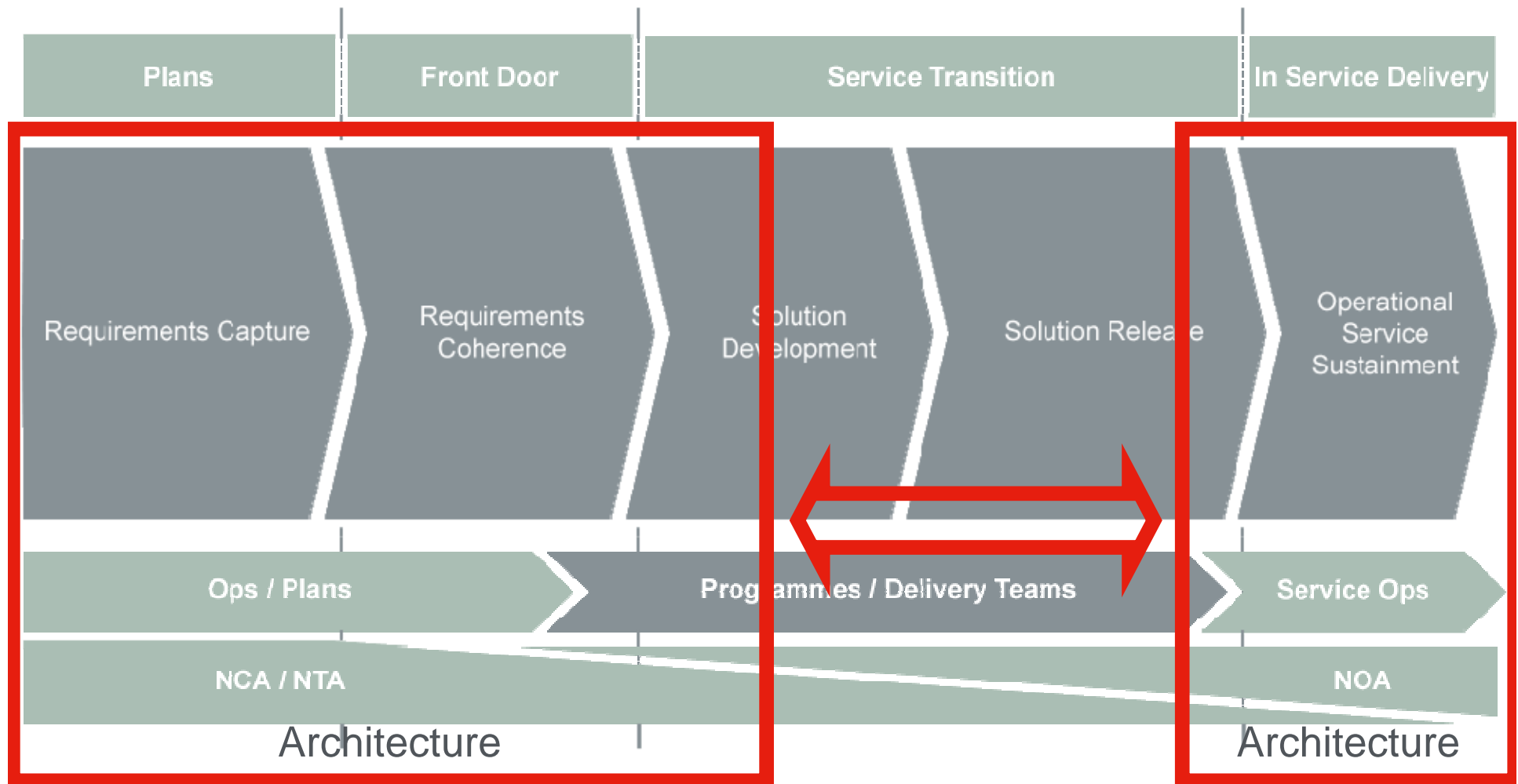




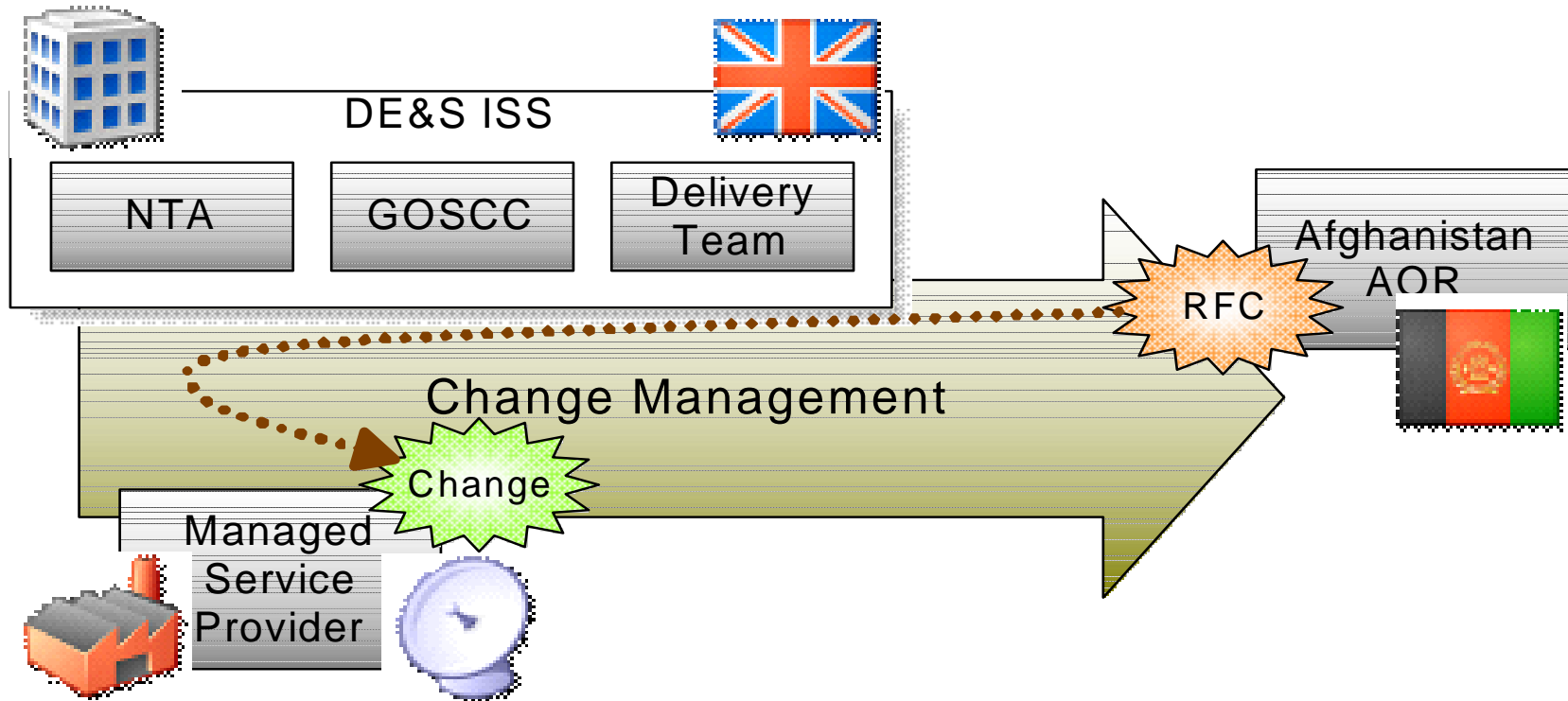
Enabling collaboration



ISS Urgent Requirements Work Flow



Governance



- Governance
 - Key challenges
 - Issues to be addressed

The Big Challenge



Strategic View

- Significant Projects
- For major business benefits
- Execute over months/years
- Run from UK

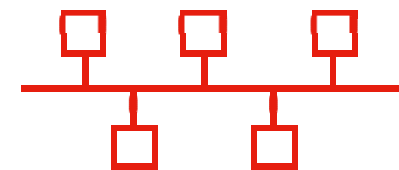
Knowledge of live

Big Issues

Don't Break the capability
Understanding of live

Don't Break the capability
Understanding simple change has
Side-effects

Live Operation



Many small changes

- Urgent, Important
- Low impact
- In theatre/tactical

Rules & authority

**Quick response to
'medium' change**

Change Management Process



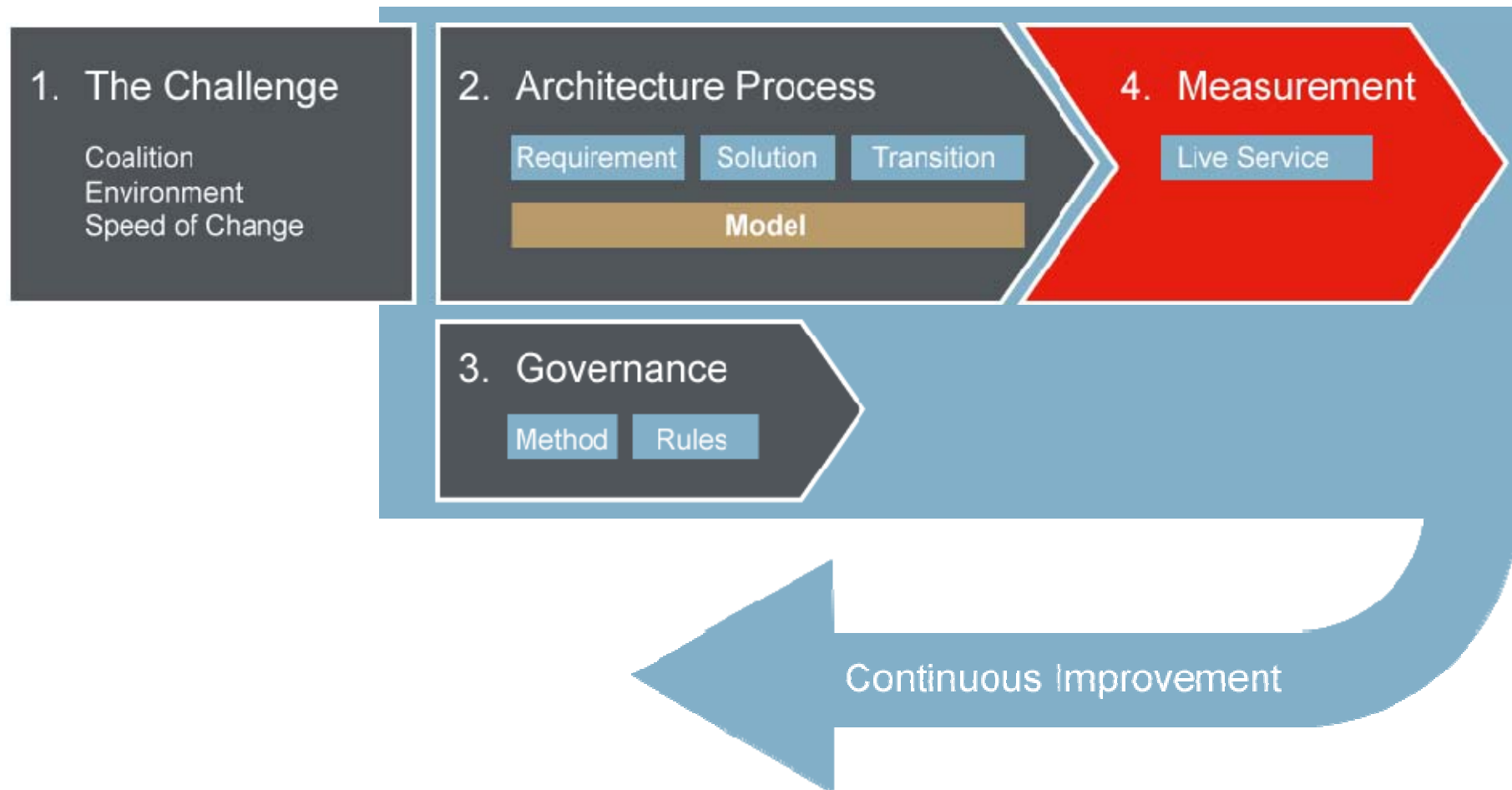
- No surprises in the process, based on ITIL
 - Captured in Mood
- Essence of the method:
 - Change Models, based on Rules
 - Handles the Complexity
- Detail in the change models for types of change and different configuration items (CIs)
 - Identifying assessment rules
 - Responsibility for authorisation

How does it work in practice?



- Ensures change is approved and acted upon at the lowest safe level
- Uses rules to give a consistent and reliable approach
- Looks for high risk or high impact activities so they can be managed appropriately
- Enhances visibility of change within UK processes and to the Coalition

Measurement – Closing the Loop



Why does it matter?



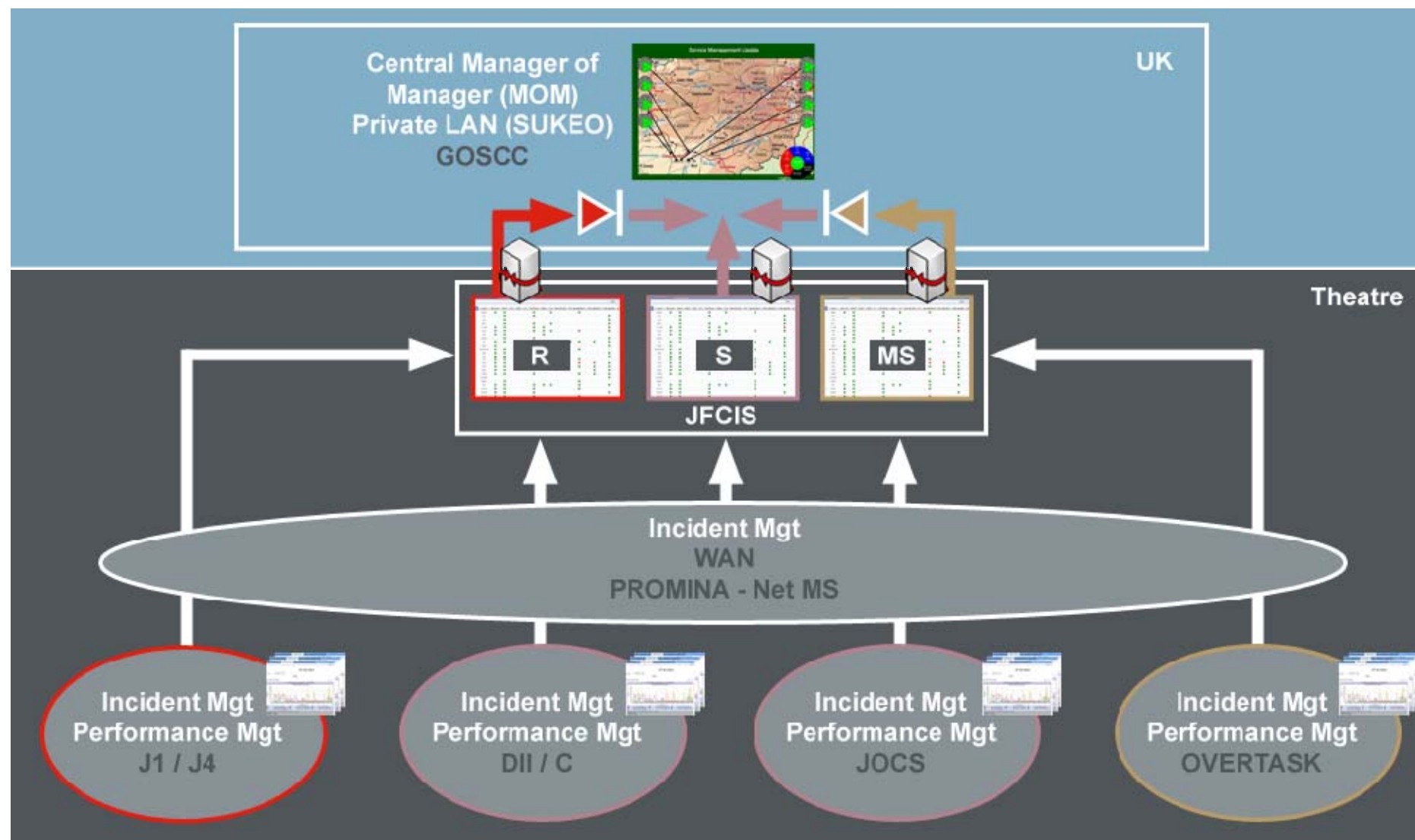
- ICT solutions working at the edge:
 - Constrained communications environment
 - Equipment footprint has to be minimal
 - Operators and Administrators change frequently
 - The environment has a very high rate of change
- Measurement helps us:
 - Visibility is a big step:
 - Aid accurate decision making
 - Enable effective incident management
 - Enable pro-active management
 - Support Change Management

What does VEGA provide?

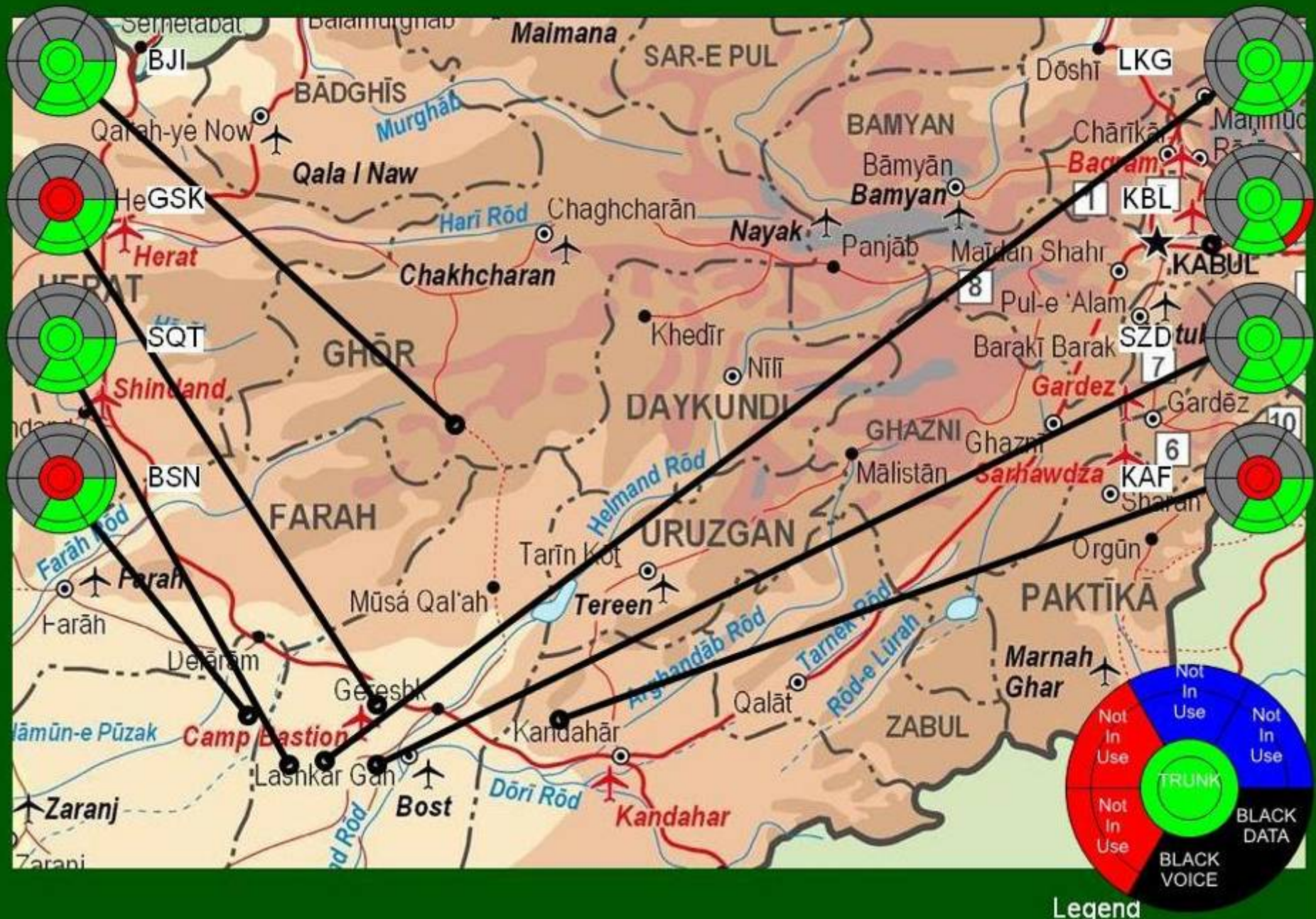


- End to End Network and System Management solution
 - Reporting on the key UK systems and networks
 - Capturing and Measuring
 - Application performance over the network
 - Events and Alerts
 - Configuration Data
 - Displaying
 - Network Performance and Loading
 - System status and faults
 - Configuration Data
 - at Local, Theatre and UK level
- Only system presenting a unified view across security domains

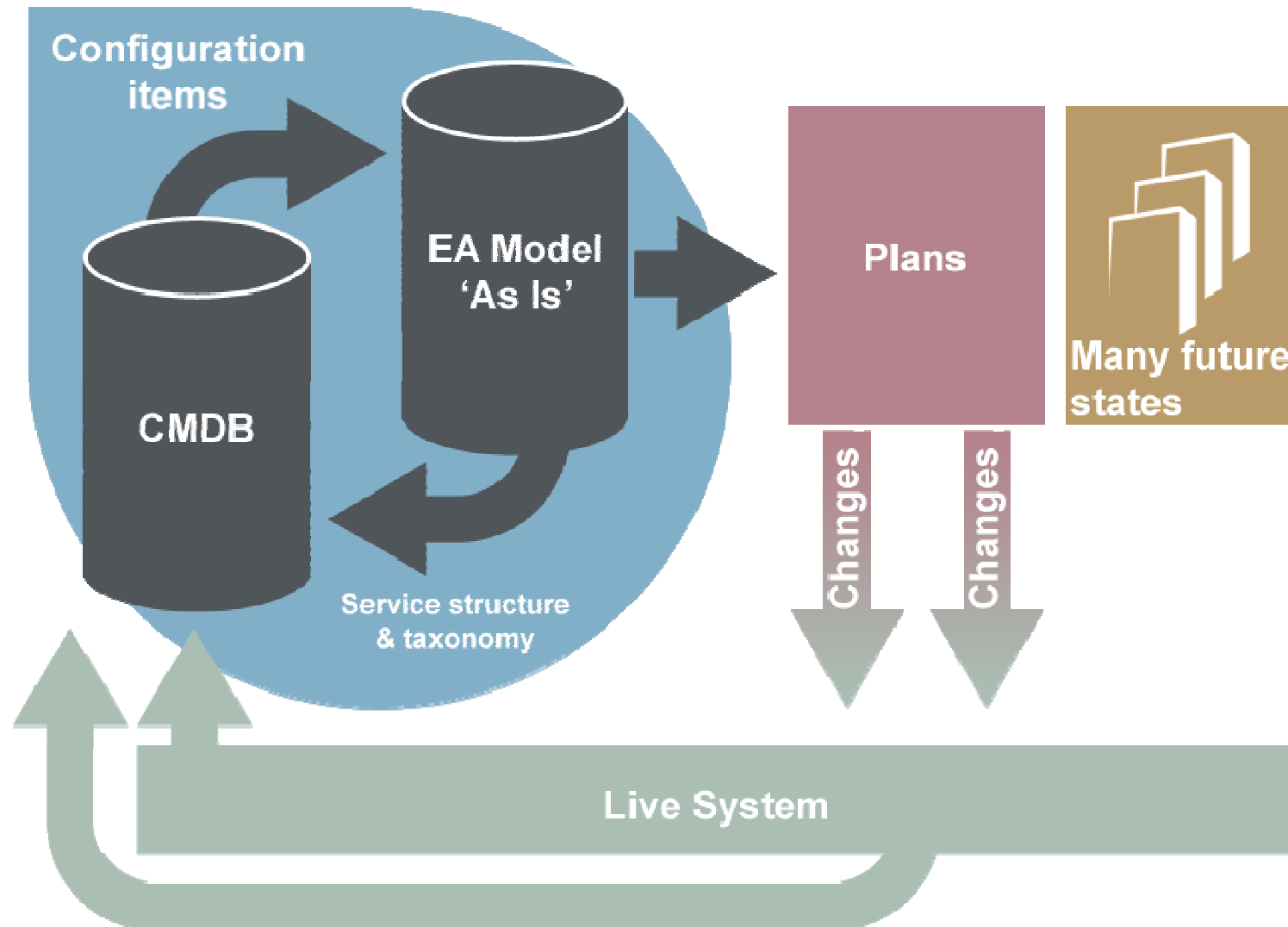
Data Capture and Reporting



Service Management Update



Configuration Management DB



Conclusion



- Practical integration of EA into the business
- Governance - effective Decision Making
- Measurement creates Knowledge, enables pro-active behaviour, enables feedback



Where Next



- Continue for the life of Op Herrick – 2015
- Re-usable pattern for future Coalition Operations
 - Architecture management
 - Governance
 - Measurement
- Inform NCA/NTA/NOA future operating models

VEGA's Architecture Approach
– delivering results to the Front Line