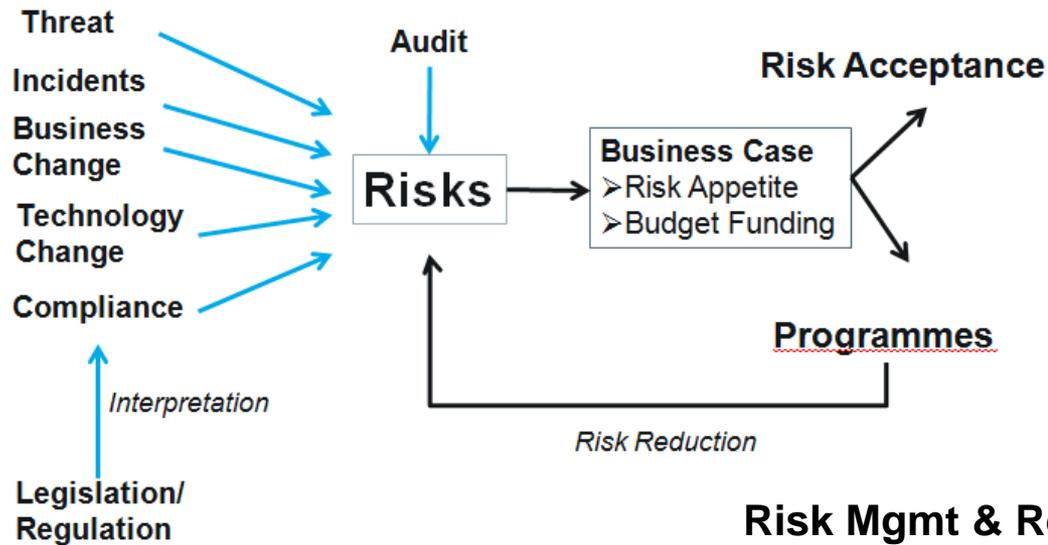


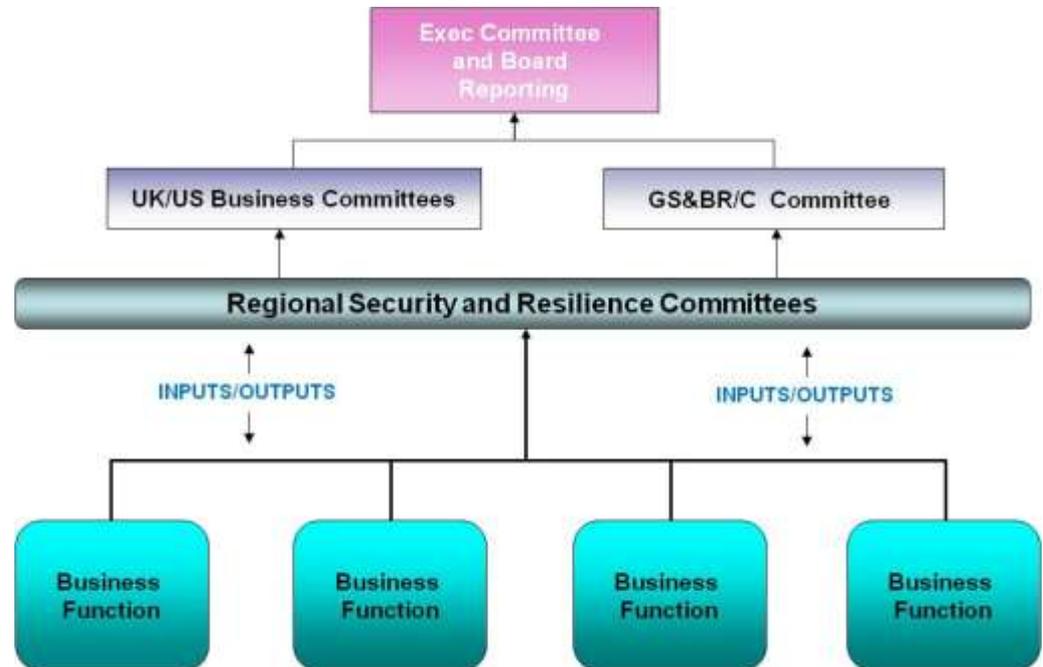
Enterprise Security Governance

Robert Coles – Chief Information Security Officer and Global Head of Digital Risk & Security

Governance and Organisational Model



Risk Mgmt & Reporting



Digital Risk & Security Team

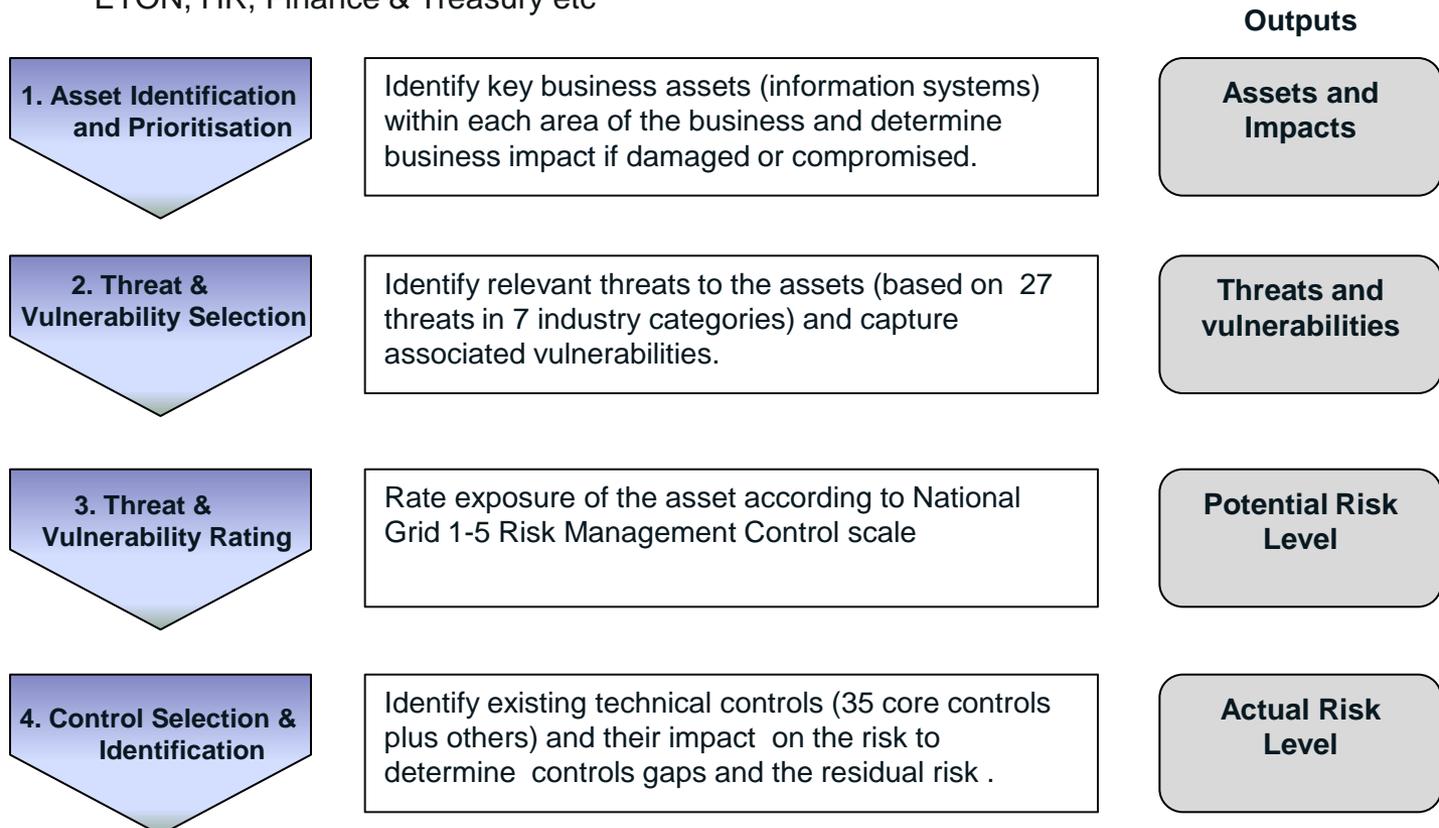


Threat & Control Assessment

Approach

33 Workshops, 47 Information Assets/Asset Types

Across UK & US: Business Units, Trading Systems, CNI/Network Operations/Field Devices – Gas & Electricity, Field Management, LNG, Metering, Generation, IT Infrastructure – email, desktops mobiles, etc', IT Applications – SAP, Billing, Payments, ETON, HR, Finance & Treasury etc



Key Threats

A) Insider Attack / Error

A threat to National Grid Systems / Data from a trusted source within the National Grid security perimeter

B) System Availability / Malfunction

A threat to National Grid Systems / Data availability due to System Malfunction

C) Malware / Virus Attack

A threat to National Grid Systems / Data from an indirect attack via Malware or Virus infestation

D) Data Leakage / Corruption / Availability

A threat to National Grid Data confidentiality, integrity or availability

E) External Attack

A threat to National Grid Facilities, Personnel, Systems / Data via a directed attack by an outside party from outside the security perimeter with the intent of causing damage or destruction

F) Unauthorized Access

A threat to National Grid Facilities, Personnel, Systems / Data due to unauthorized access

G) Criminal Victimization of Employees

A threat to National Grid personnel from criminals, disgruntled customers, or members of the public.

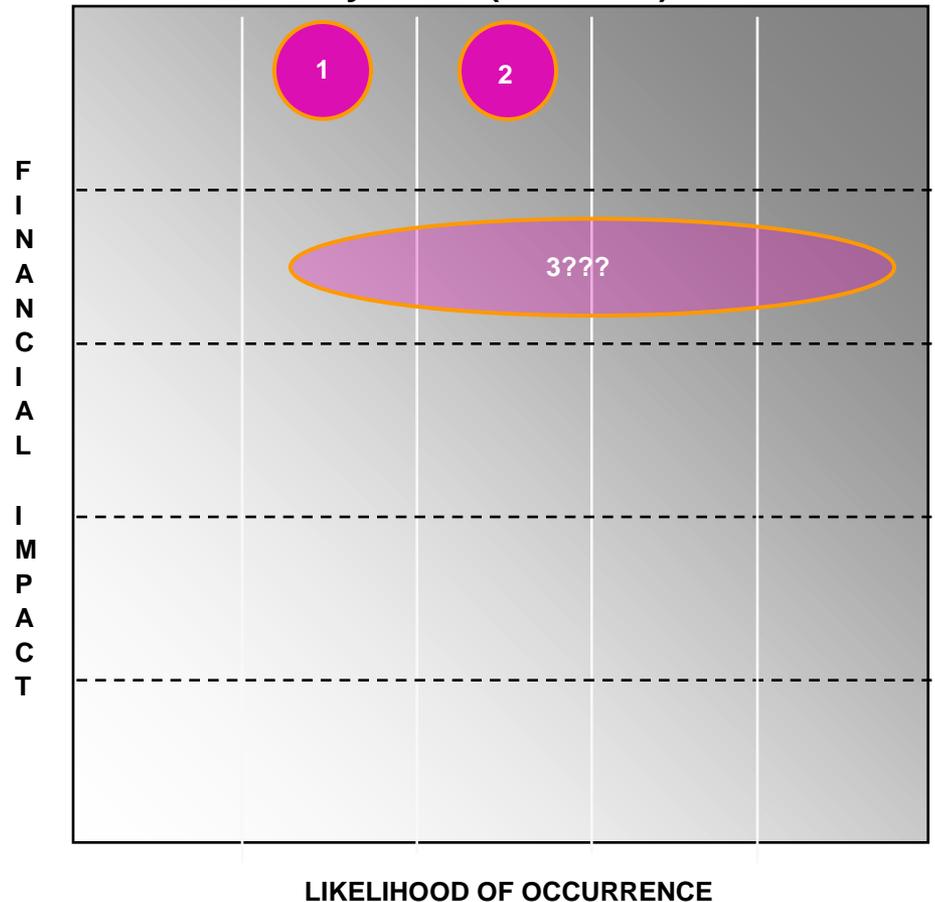
H) Regulatory Non-Compliance

A threat of fine or sanction resulting in monetary loss or negative reputational impact

I) Commercial/state sponsored espionage

A threat by foreign actors to achieve economic or technical advantage at the expense of National Grid

Key Risks (GLOBES)



- 1 **Catastrophic cyber security breach of CNI systems**
- 2 **Major cyber security breach of business systems/data**
- 3 **IT embedded in Operational Technology**

Threat and control assessment (cont)

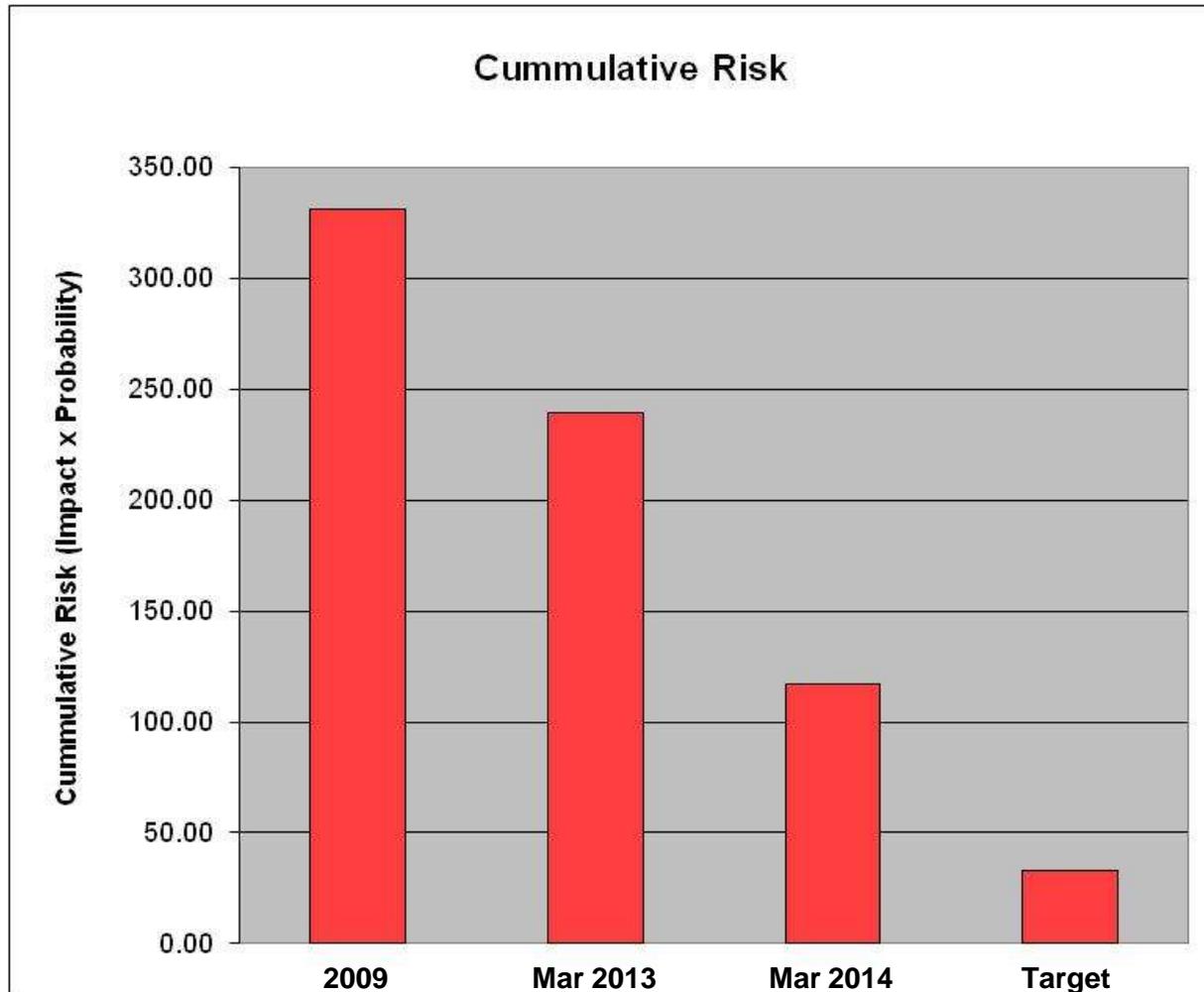
Key investment areas

1. **Endpoint Security** – security of end user computing and information
2. **Shared Information** – security and access to stored sensitive information
3. **Network Security** – network access control, configuration and zoning
4. **Access Control** – user access provisioning and management
5. **Critical National Infrastructure** – specific improvements

Program

1. **Foundational** – definition of underlying policies & standards and more detailed analysis and remediation planning across several specific areas
2. **Tactical** – short to medium term remediation activities
3. **Strategic** – long term remediation activities focused on enhancing and implementing new security technologies and capabilities

Digital Risk & Security Programme Update



Energy threat landscape is changing

nationalgrid

THE POWER OF ACTION

We need:

Better intelligence and co-ordination from intelligence communities

Disruptive response capabilities from federal agencies and co-ordination across state and national borders

A regulatory environment to allow investment in security infrastructure to address changing risks

Facilitated co-ordination of incident response across government and business

We don't need:

Forced disclosure of incidents that could increase our vulnerability

Standards/audits/compliance based rules

Sanctions for infringements of the national rules