

### Future proofing or crystal gazing



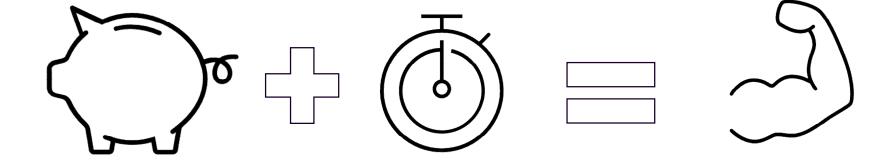
- Domain 1. Cloud Concepts, Architecture and Design
- Domain 2. Cloud Data Security
- Domain 3. Cloud Platform and Infrastructure Security
- Domain 4. Cloud Application Security
- Domain 5. Cloud Security Operations
- Domain 6. Legal, Risk and Compliance







# Cyber security skills in the 4IR



### Workforce roles in the cyber security















Risk

Management

Software

Development

Systems

Architecture

Systems

Development

Systems

Requirements

Planning

Technology

R&D

Test and

Evaluation

## Workforce roles in the cyber security

Cyber

Investigation

Digital

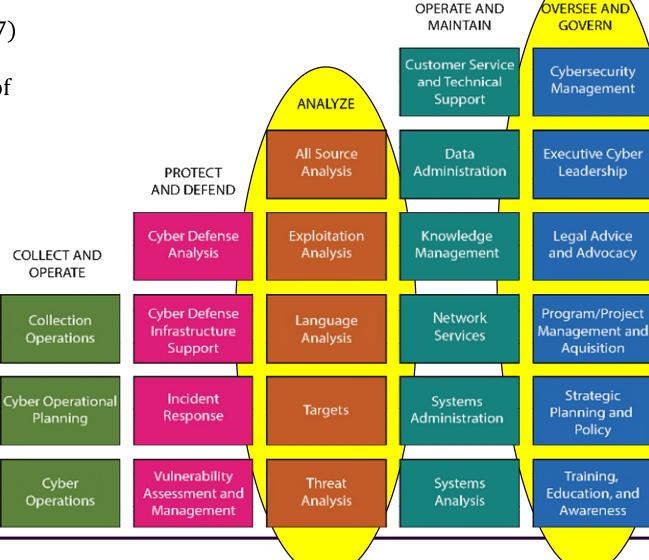
Forensics

**Cybersecurity Workforce Categories** (7)

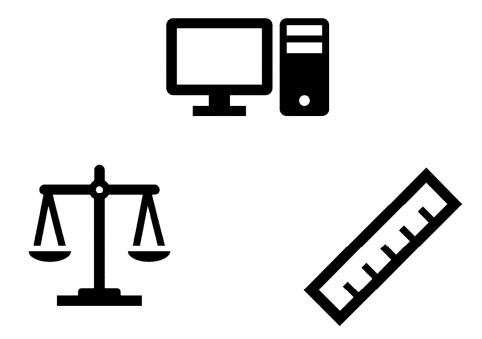
**Specialty Areas** (33) – Distinct areas of cybersecurity work

Work Roles (52) – The most detailed groupings of IT, cybersecurity, or cyber-related work, which include specific *Knowledge, Skills, and Abilities (KSA's)* required to INVESTIGATE perform a set of

Tasks.



#### Broad based skills include non-IT skills



### **Organisational preparedness**

Measure Map Plan

### **Organisational preparedness - Planning**









Framework for Improving
Critical Infrastructure Cybersecurity



### **Comprehensive Cyber Security Awareness Programmes**

What are the latest relevant cyber attacks?

•How do I use my system securely?

•How do we know of our programme is working?

#### **Conclusion**

A broad based cyber security investment is needed today.

We should invest in our cyber security functions.

But should not neglect our end users.