



Cybersecurity collaboration in the financial sector

**Innovation and Cyber Security
Conference
August 2018**



Collaboration



Why?

- Obvious interconnected contagion risk but more specifically we have to make it more difficult for attackers:
 - Reduce economic incentive - just reuse methods
 - More effective response if we combine resources (together we are stronger)
 - Unable to exploit the fact that all of us has only part of the picture – unable to detect
 - Cannot abuse the fact that we fumble or are slow on response
 - Ensure they don't migrate to the weak area ... your area...



Collaboration on what?

Coordination

CPDR²

Prevent

Detect

Respond
&
Recover



Collaboration on what? (Prevent)

- Ensure **Detection** and **Respond and Recover** output is formally incorporated in **Prevention** and direction setting activities – creating a learning system



Collaboration on what? (Prevent)

- Standardisation
- Risk/Status/Compliance Assessment
- Industry Vulnerability Testing



Collaboration on what? (Detect)

- Threat Intelligence
- Incident sharing
- Analysis (consolidation and collaboration)

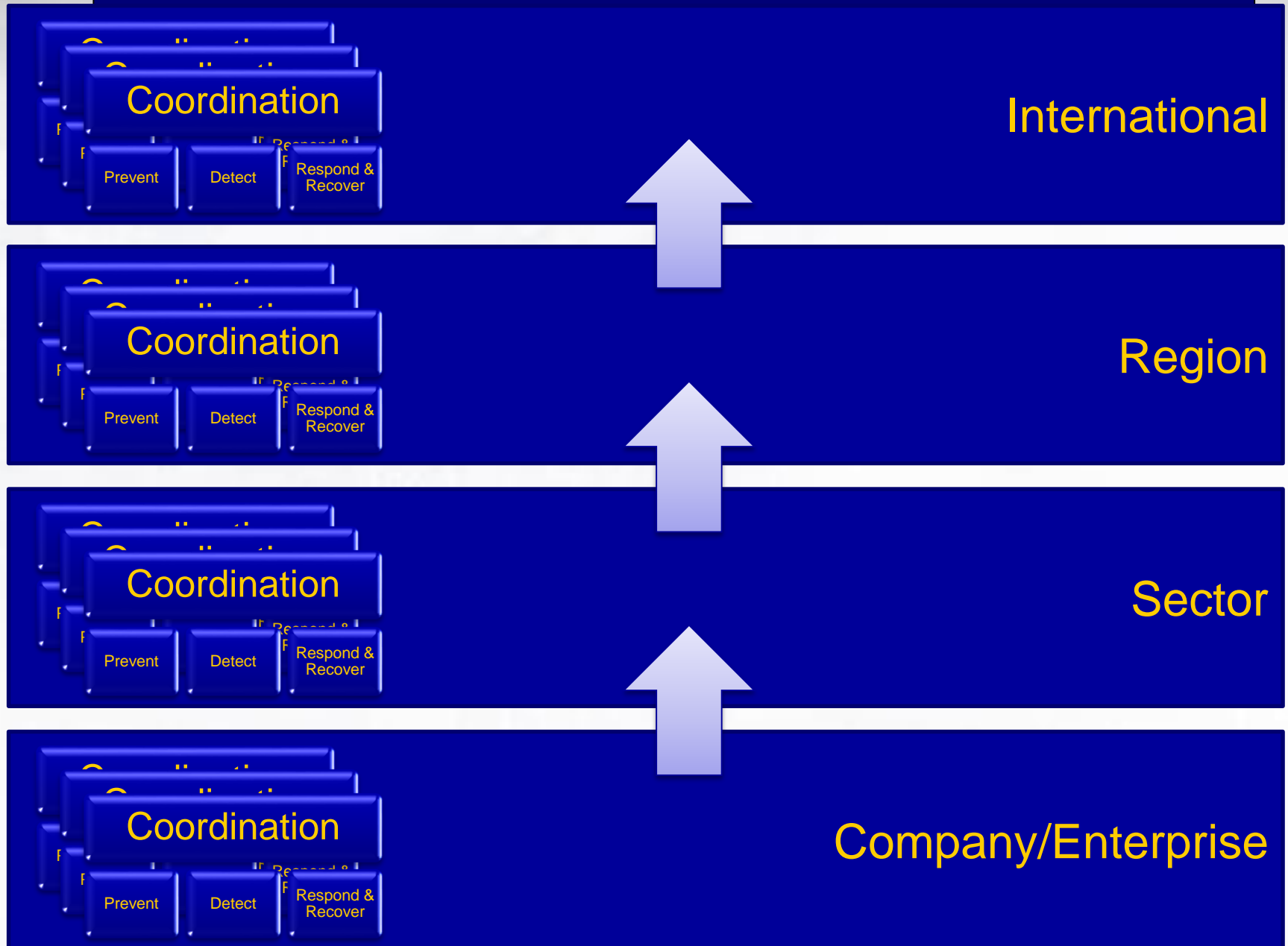


Collaboration on what? (Respond and Recover)

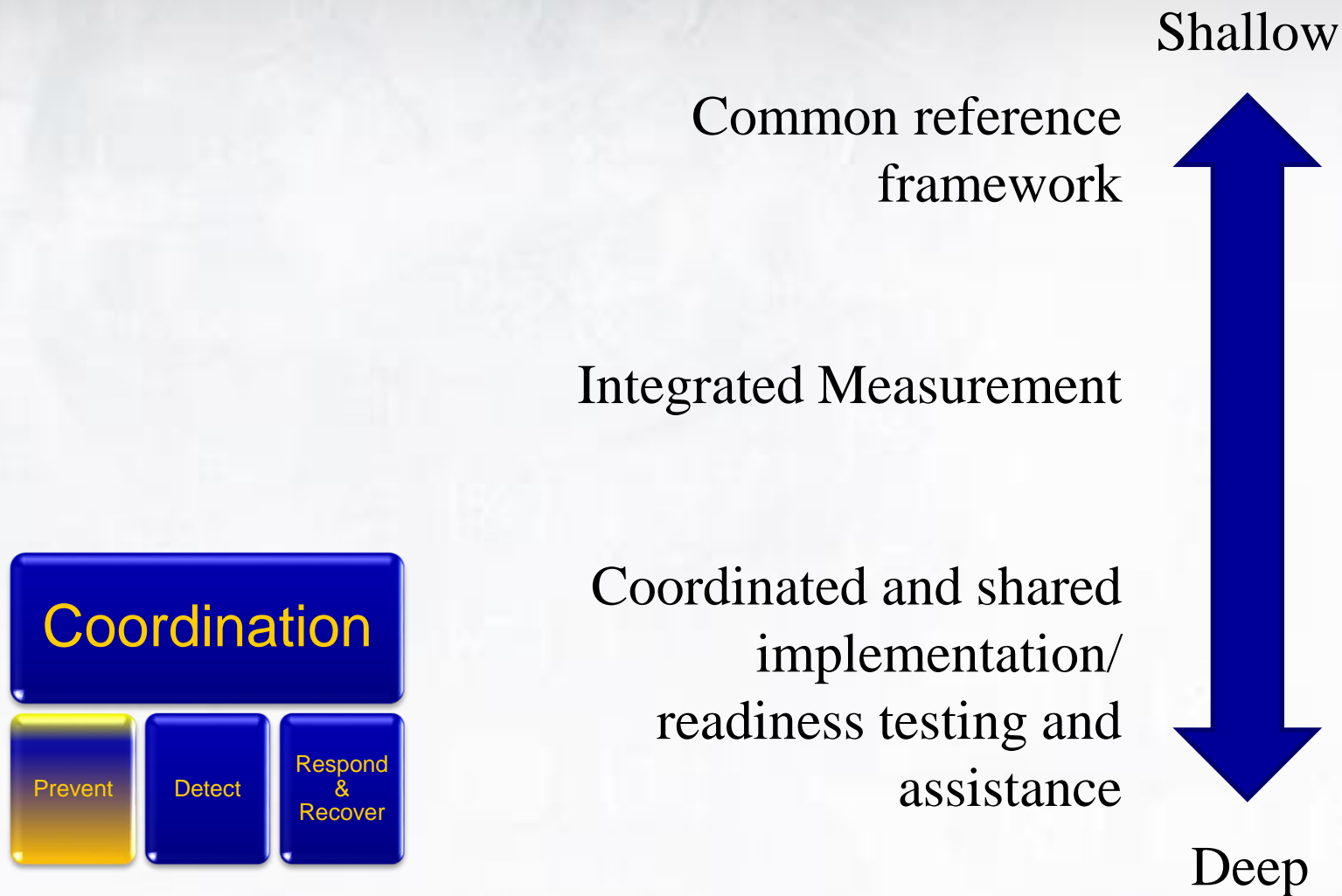
- Response and recovery coordination
- Simulation Testing (Red/Blue)
- Emergency Support and Skills



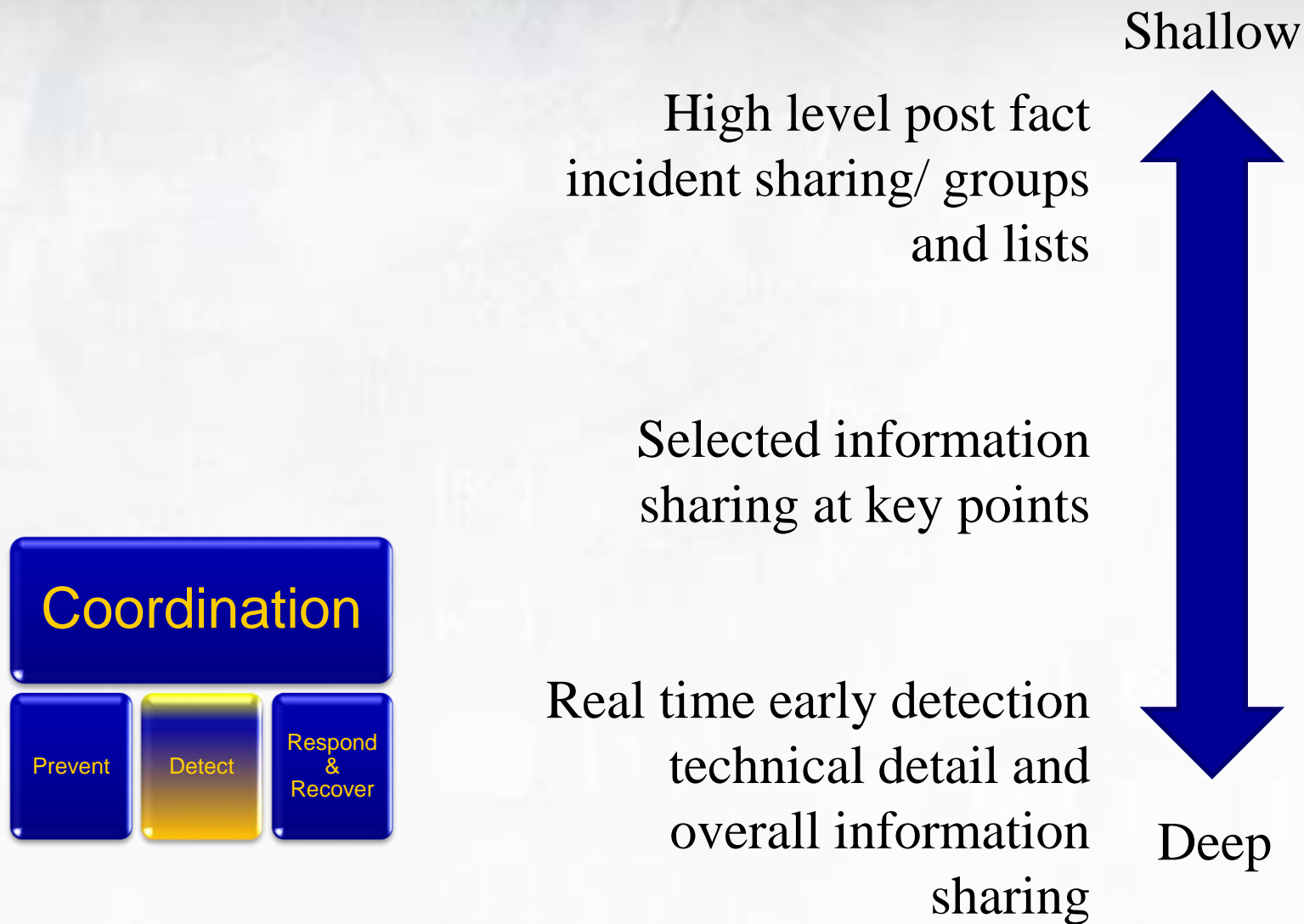
Levels of Collaboration?



Depth of Collaboration (Prevent)



Depth of Collaboration (Detect)



Depth of Collaboration (Respond and Recover)

Sharing groups and lists

Shallow

Reporting defined in terms of content, timing and audience



Deep



Integrated coordination and resource sharing



Insights

Don't mix PDR²
functions/resources

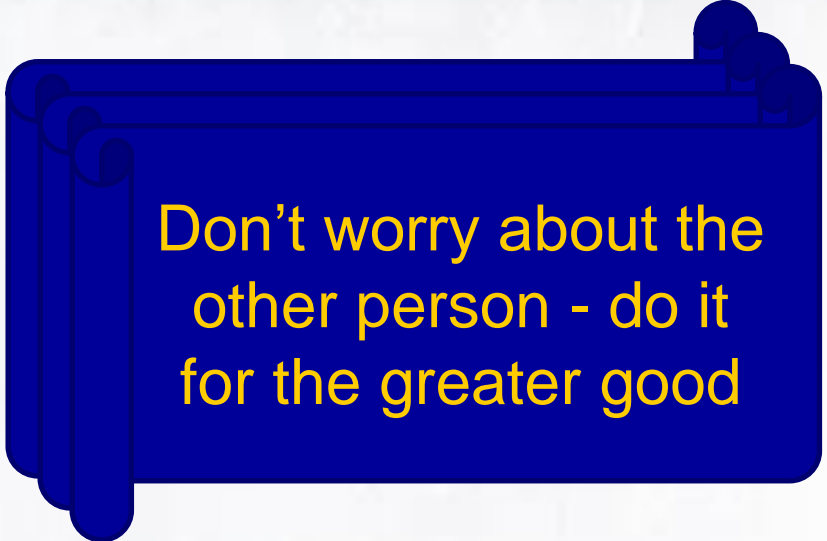


Insights

Need lower layers
before you can
meaningfully
participate



Insights



Don't worry about the
other person - do it
for the greater good




Insights



Just start – depth
grows with time and
trust




Insights



Don't care about
domains – attackers
don't




Insights



Don't shoot the
messenger – cyber is
tough



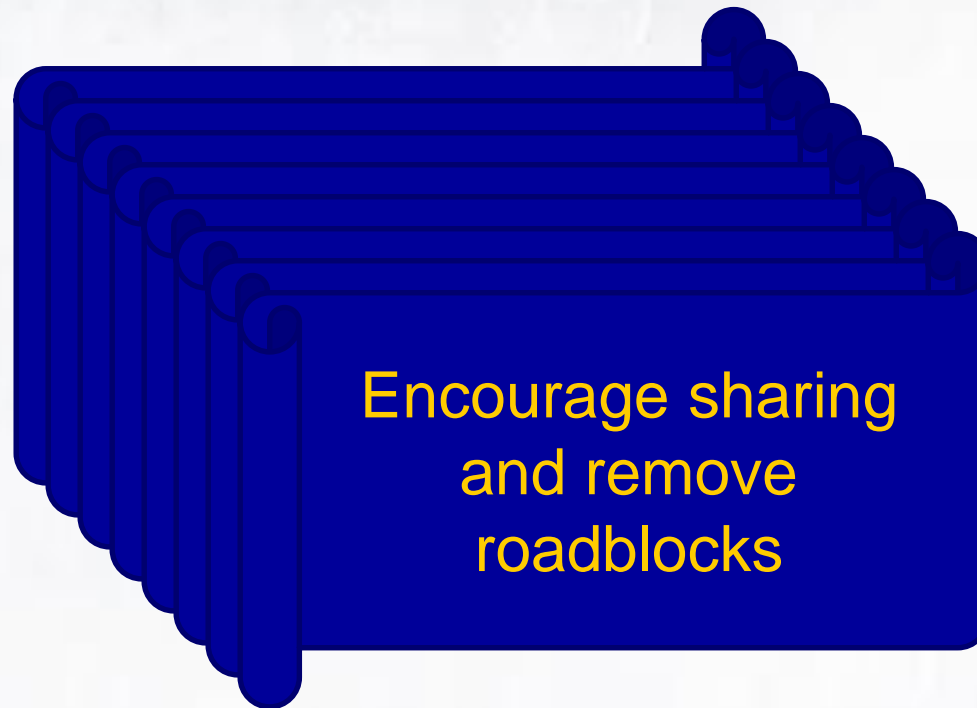
Insights



Combine formal (self
organised dynamic)
and formal efforts



Insights



Questions

