

# Architecting long lived systems

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# A step change in environmental monitoring



From “expeditionary”  
offline sampling



To continuous environmental  
monitoring

**Licence to operate**  
demonstrating  
**prudent operations in sensitive areas**



# Architecting agile projects



# Architecting innovation





# Stacking Capabilities

# Business Capabilities are...



Driven by value



Measurable



Action Oriented

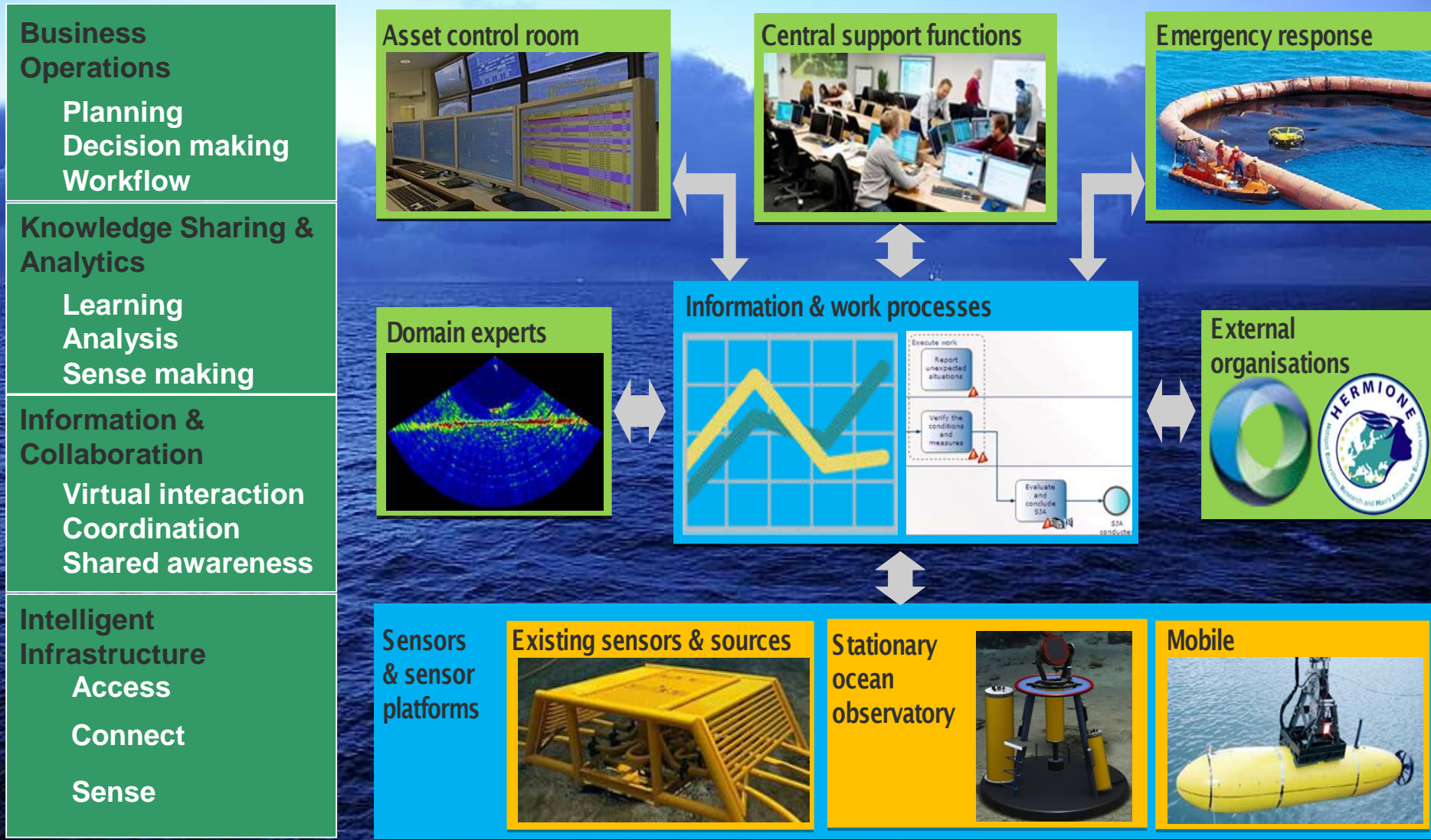
# Business capabilities combines



People  
Technology  
Processes  
Governance



# IEM capability stack

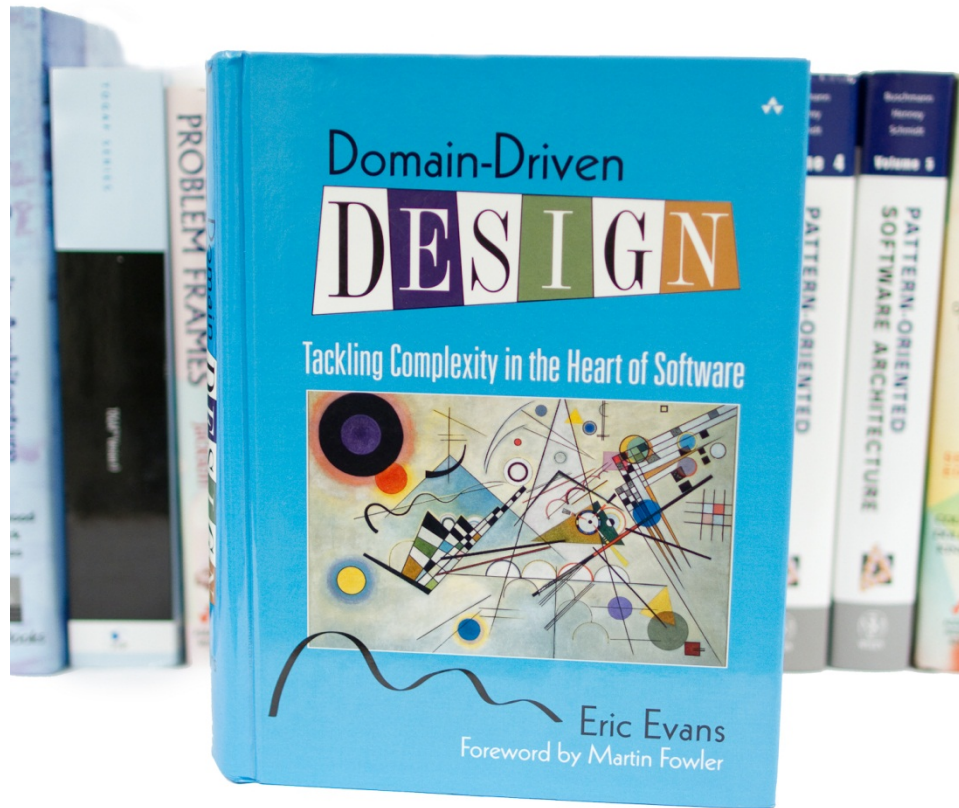


Background photo: Harald Pettersen





# Managing Complexity



# Bounded Context



Discharge  
Modelling

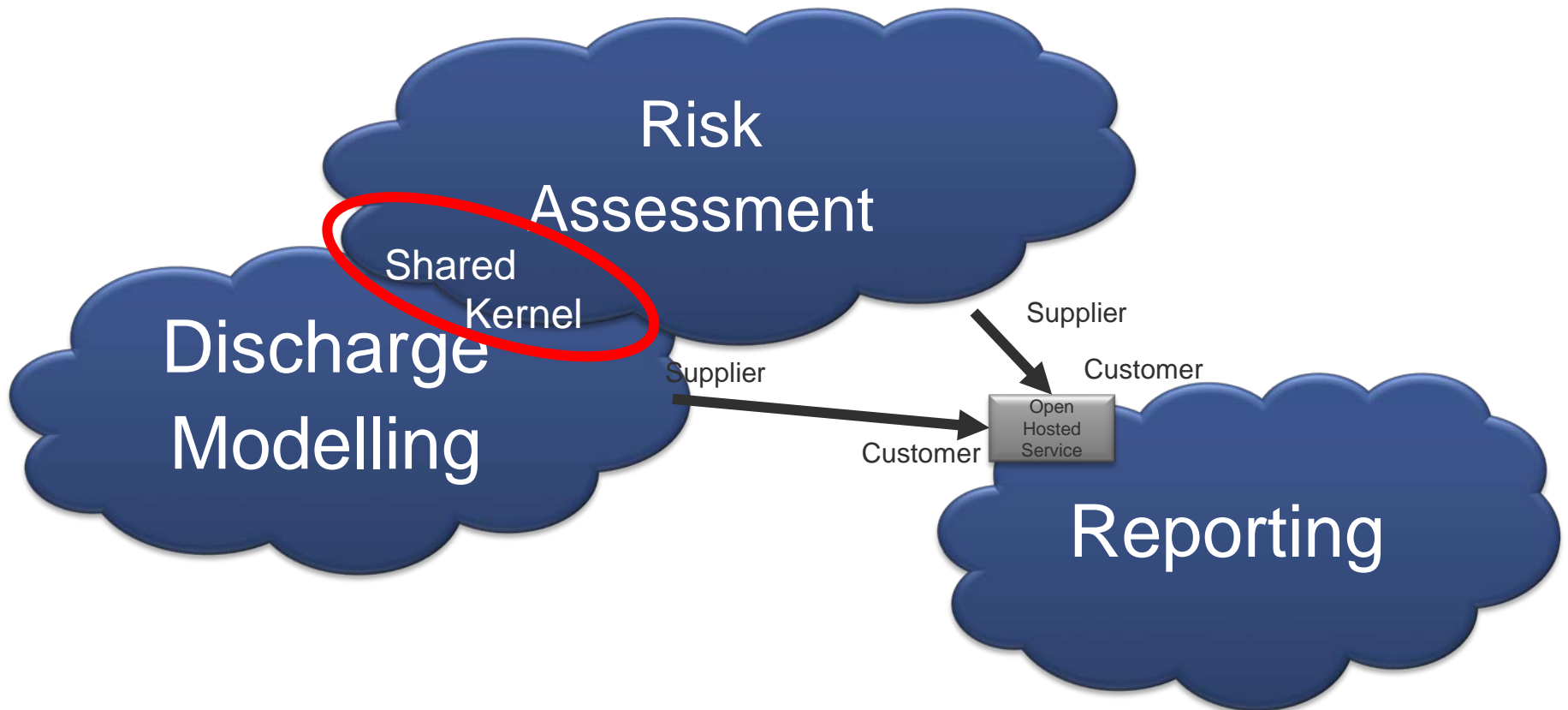
Delimits the applicability of a  
model

Unified concept definitions

Keep unified within

Don't worry about the outside

# Context Maps







# Architecting for change



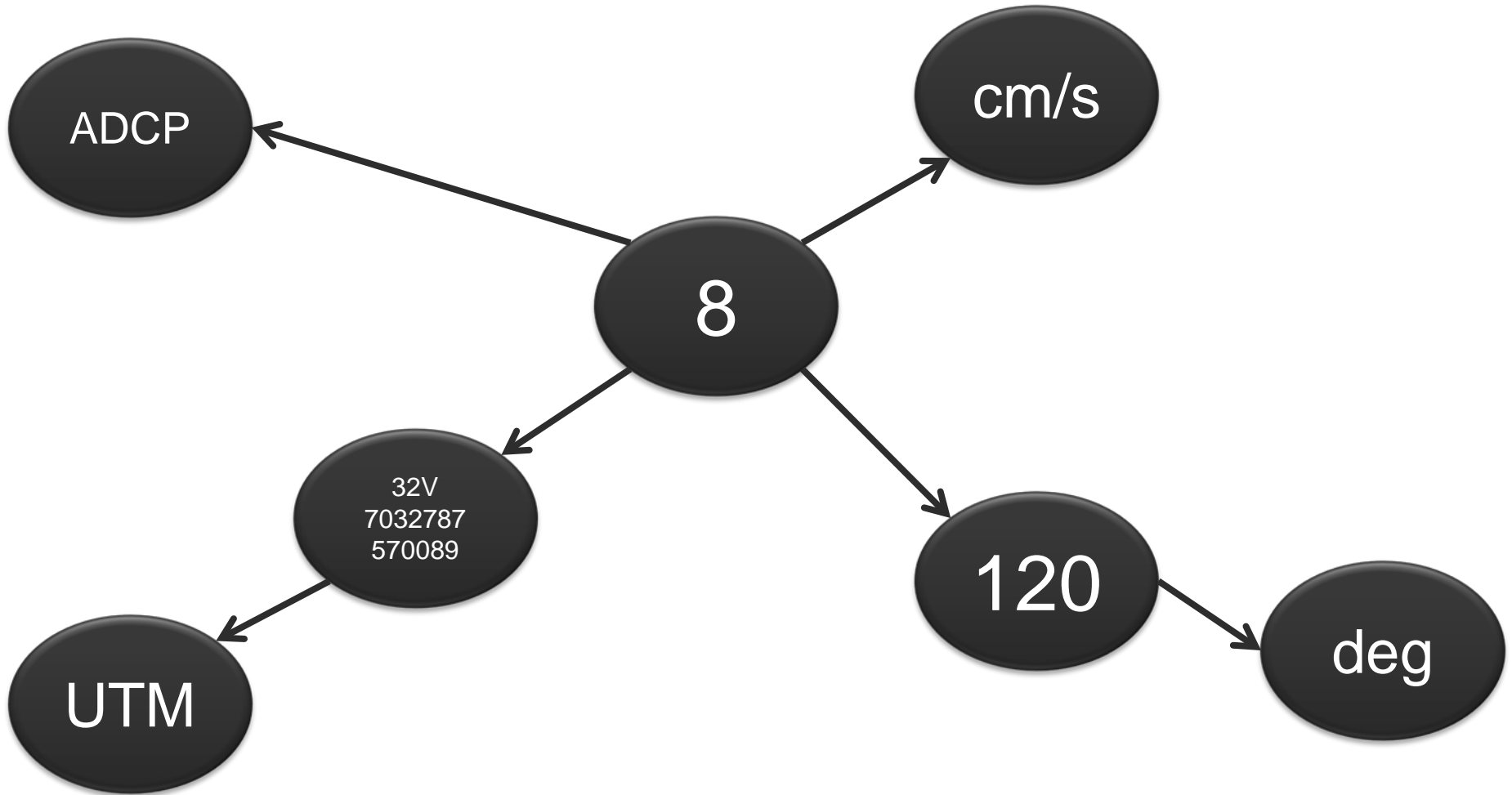
Domain 1

Domain 2

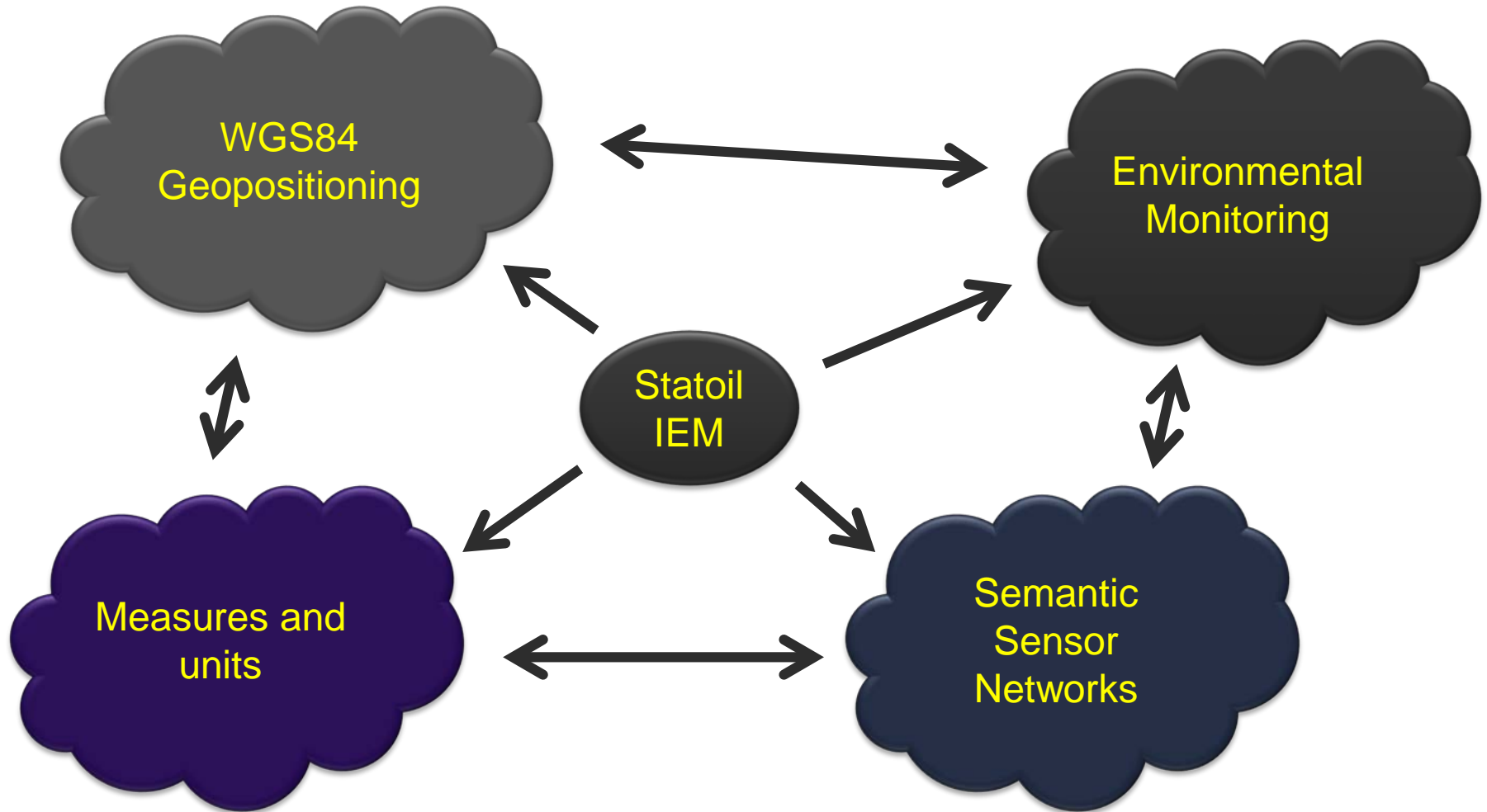
## Freedom to develop

- Interfaces follow natural boundaries
- Focus on Identifiers, Formats and Protocols
  - E.g. TCP/IP, shipping

# Giving data context

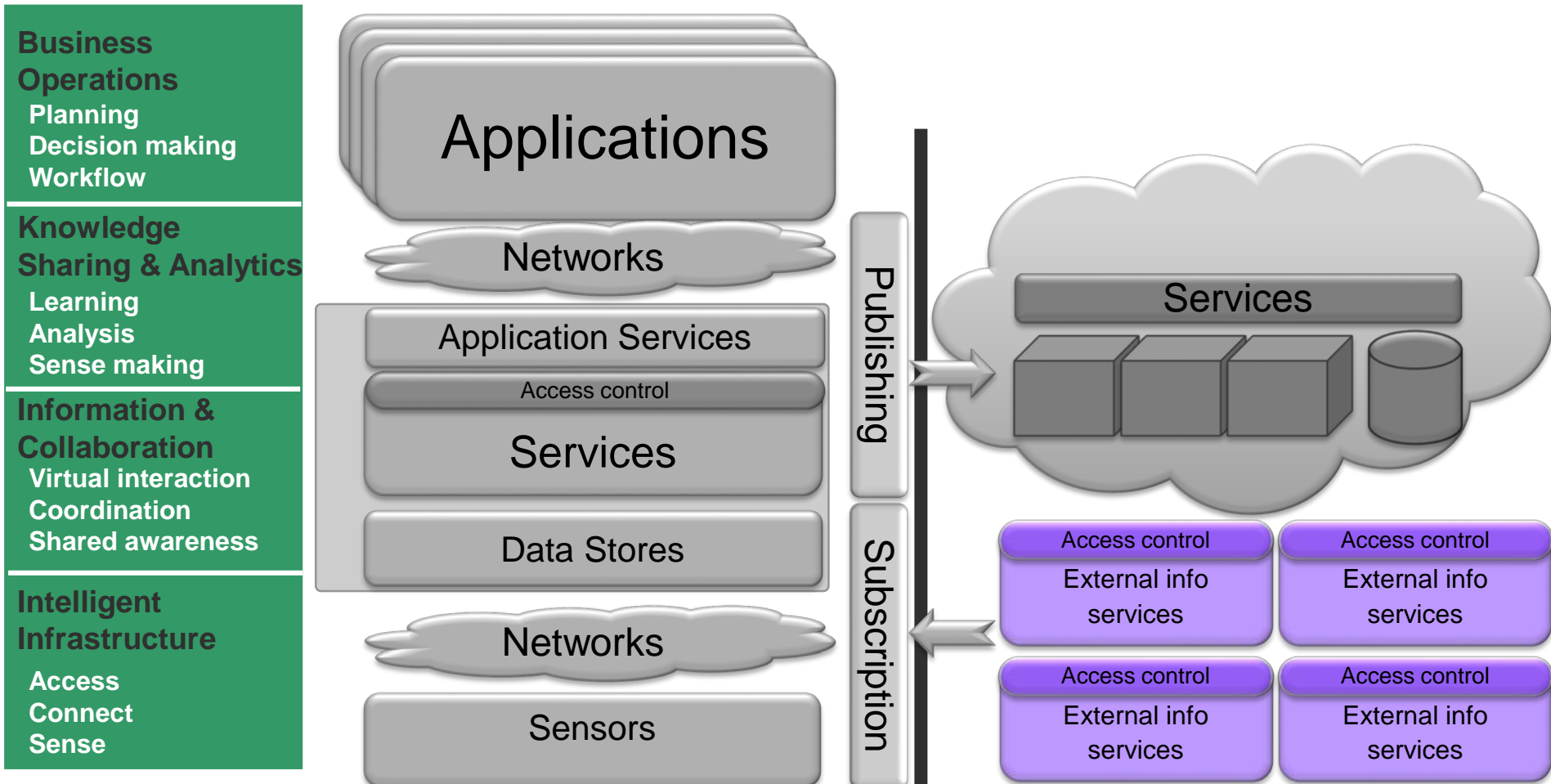


# Giving data context (cont'd)

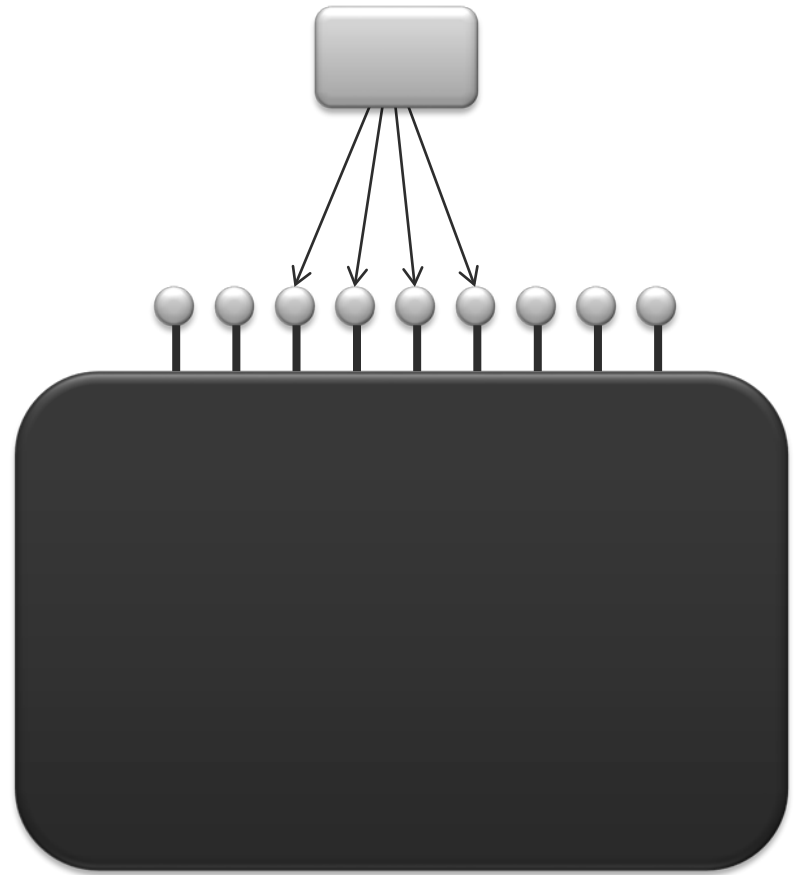
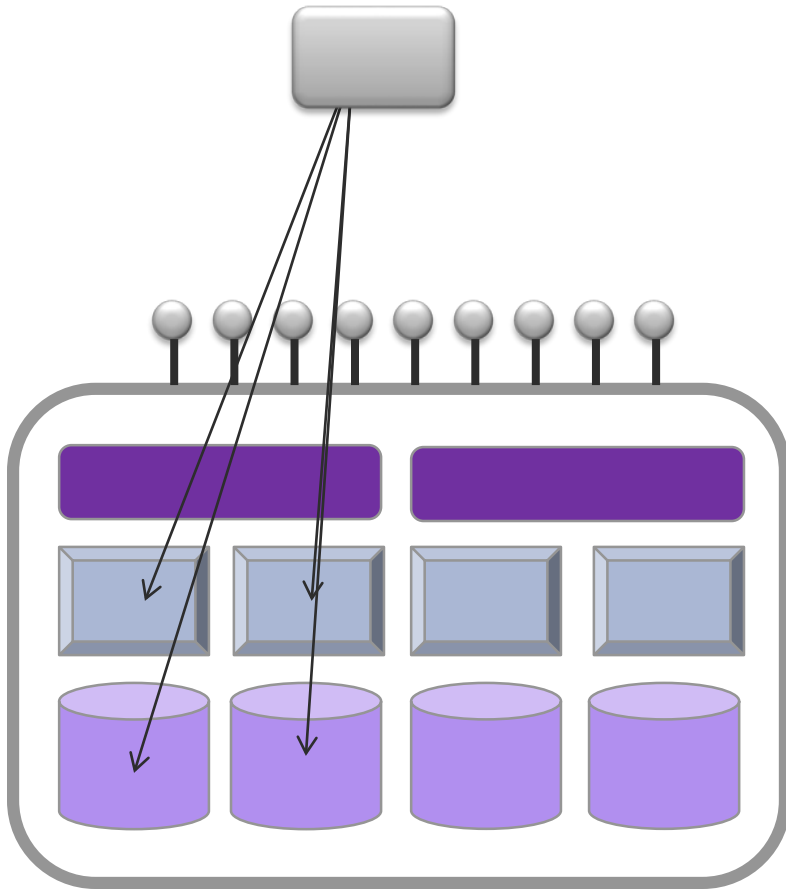




# Architecture for IEM



# Documenting architectures



There's never been a better  
time for **good ideas**

Presentation title

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