



# Infrastructure Area

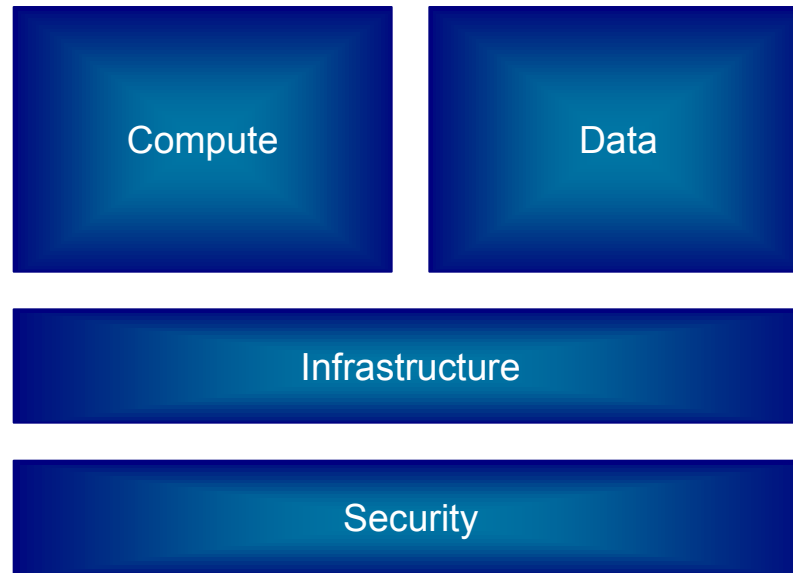
Laurence Field (CERN)

Area Leader

# Overview

- Infrastructure Area
- Available Instrumentation
- Today Limitations
- Harmonization and Evolution

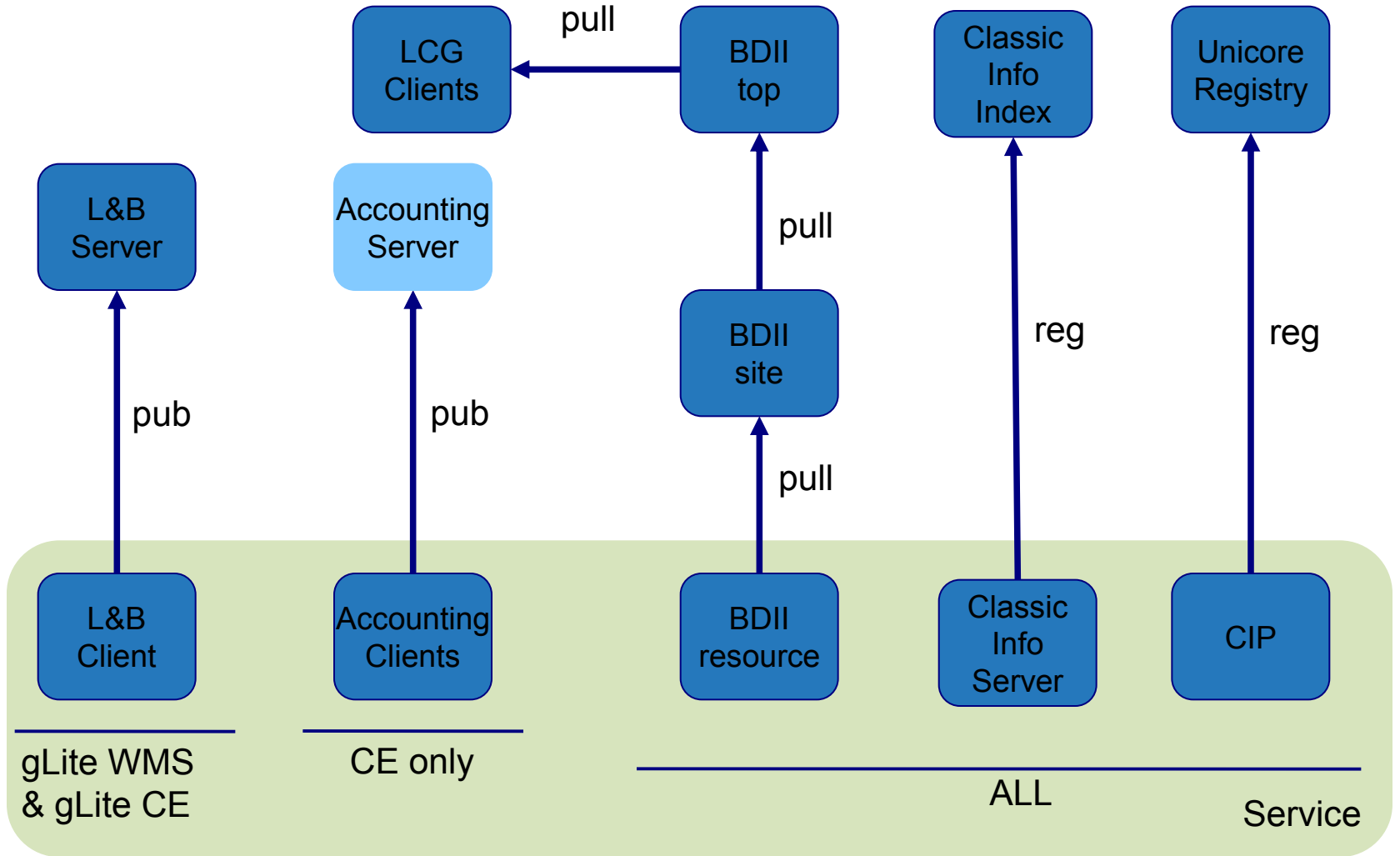
# EMI Areas



# Infrastructure Area

- Information Services
  - Providing Information about Grid Services
- Messaging Infrastructure
  - A common solution for communication
- Logging and Bookkeeping
  - Event archiving
- Service Monitoring and Management
  - Service status, fabric integration and operations
- Virtualization and Clouds
  - Investigating Cloud and Virtualization Technology

# Today



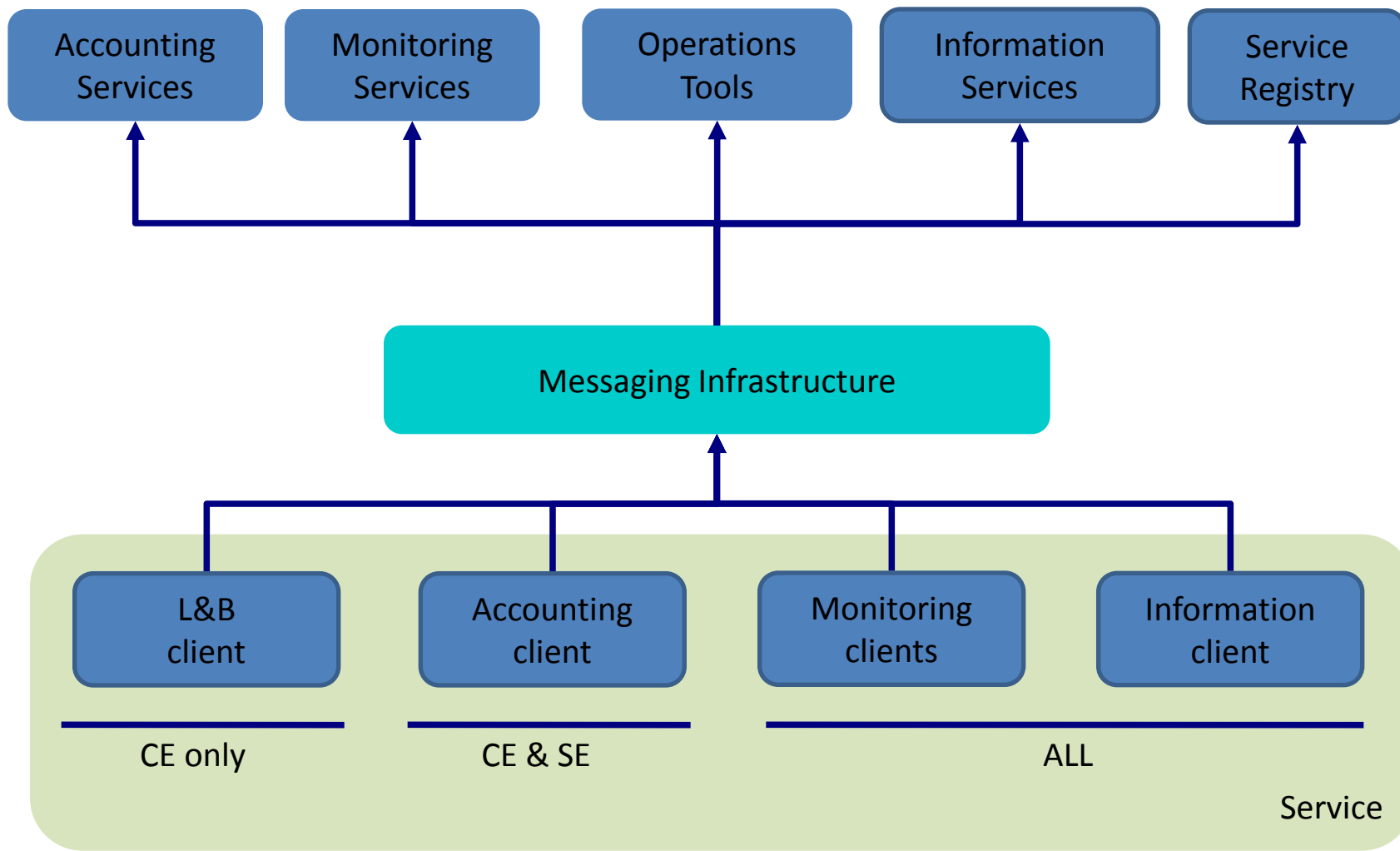
# Information Services

- Main Focus
  - Consolidation
    - Significant overlap in functionality
  - Harmonization
    - Adoption of GLUE 2.0
  - EMI Registry
    - Core architectural component
    - Leverage the experience of the different middlewares
      - And the different approaches
      - What have we learnt in the past 10 years?

# Messaging

- Main Focus
  - Knowledge
    - Evaluation of implementations
    - Guidelines
  - Provision
    - Messaging Product
      - Off-the-self component
        - » Requires packing and additional tooling
    - Internal Development/Test Infrastructure
      - SA2 will provide and operate this infrastructure

# Messaging Integration





# Logging & Bookkeeping

- Main Focus
  - Adoption of the messaging infrastructure
  - Requirements gathering
    - Extensive experience with Job status events
    - What about other use cases?
  - Self Reflection
    - Logging vs message archiving
    - Bookkeeping vs accounting
    - Greenfield vs Brownfield development
      - (no relation 😊)

# Service Monitoring and Management

- Main Focus
  - Knowledge
    - Requirements gathering
      - Service Monitoring
      - Service Management
    - Investigating technologies
      - Service Management
  - Harmonization
    - Service Monitoring

# Cloud and Virtualization

- Main Focus
  - Deployment of Services
    - Horizontal Scaling
  - Knowledge
    - Research Area
      - Monitoring emerging technologies
        - » Potential for EMI and it's customers
  - Provision
    - Novel solutions
      - Experimental components

# Conclusions

- It is a big area
  - Need to stay focused
- It is a challenging area
  - Information System Consolidation
  - Messaging Adoption
  - Service Monitoring and Management
- Tough decisions will need to be made
  - If we are going to take EMI seriously
    - As an integrated solution
- Cloud and Virtualization
  - A release vector for novel solutions



**Thank you**

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