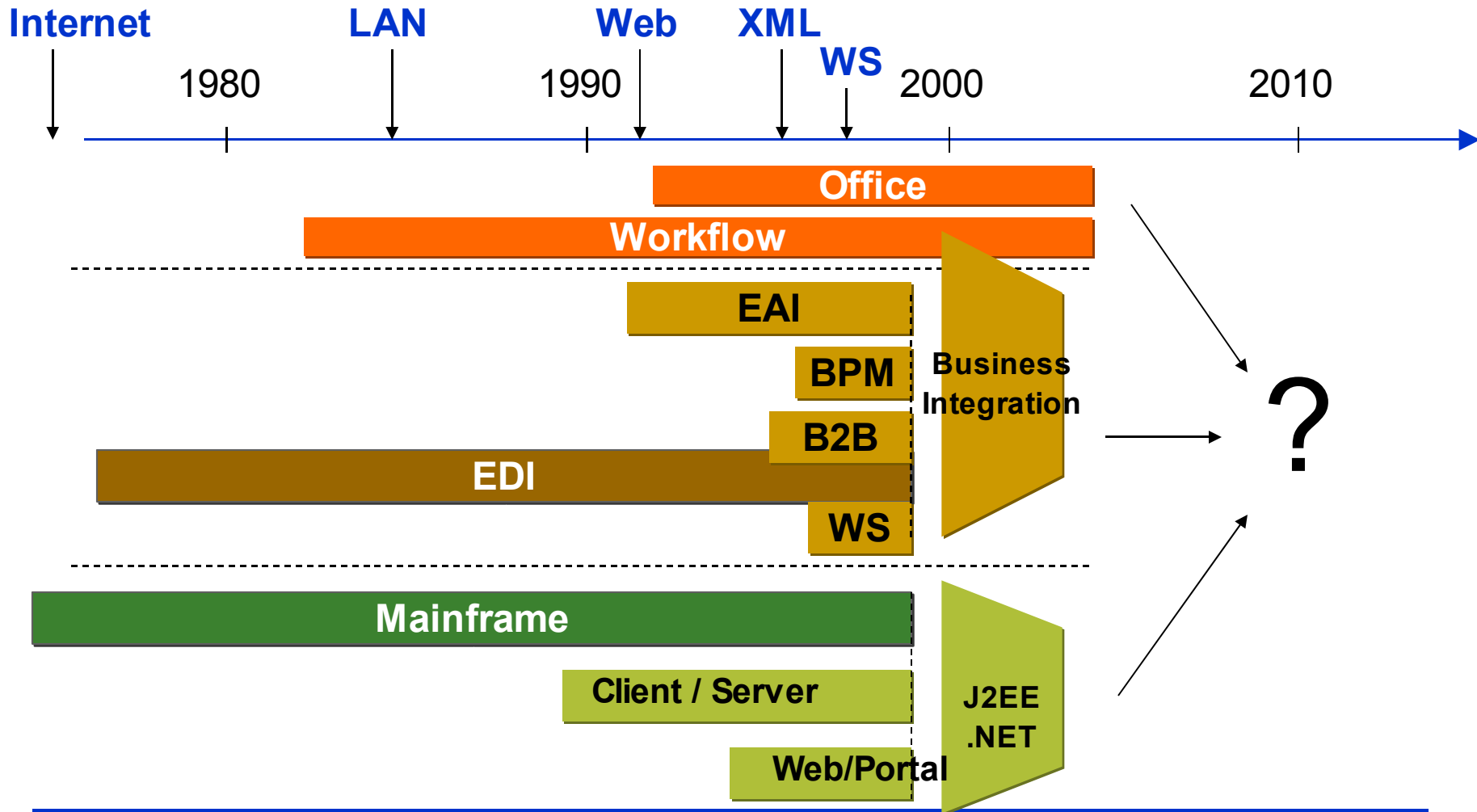


# Business Process Modeling and Analysis in a Service-Oriented World

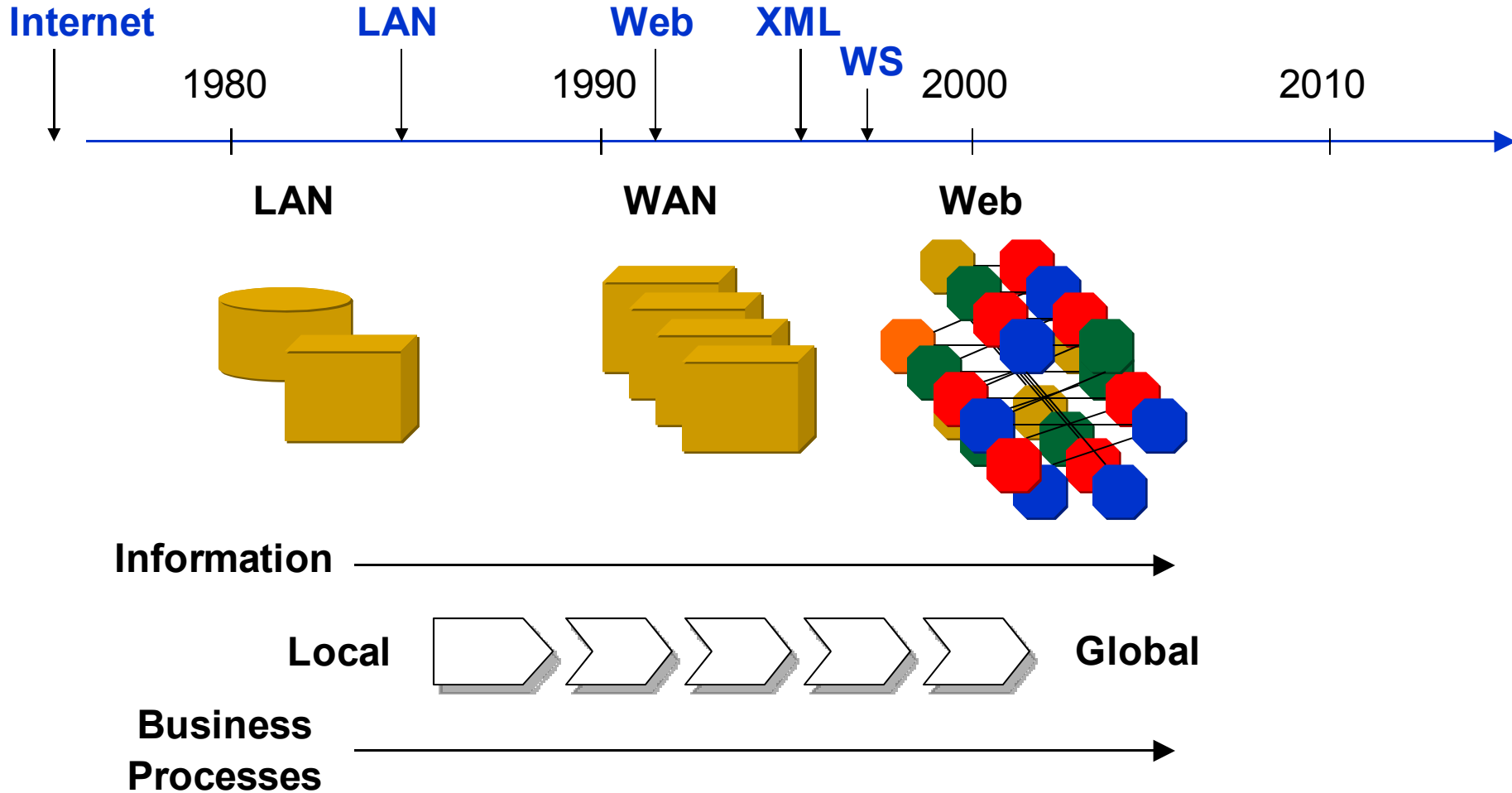


First Conference on  
Service Oriented Computing  
Jean-Jacques Dubray,  
December 2003

# The Software Industry is in complete Mutation Driven by Major Technology Convergence



# Systems that are now « Massively Connected » supporting Global Information and Processes



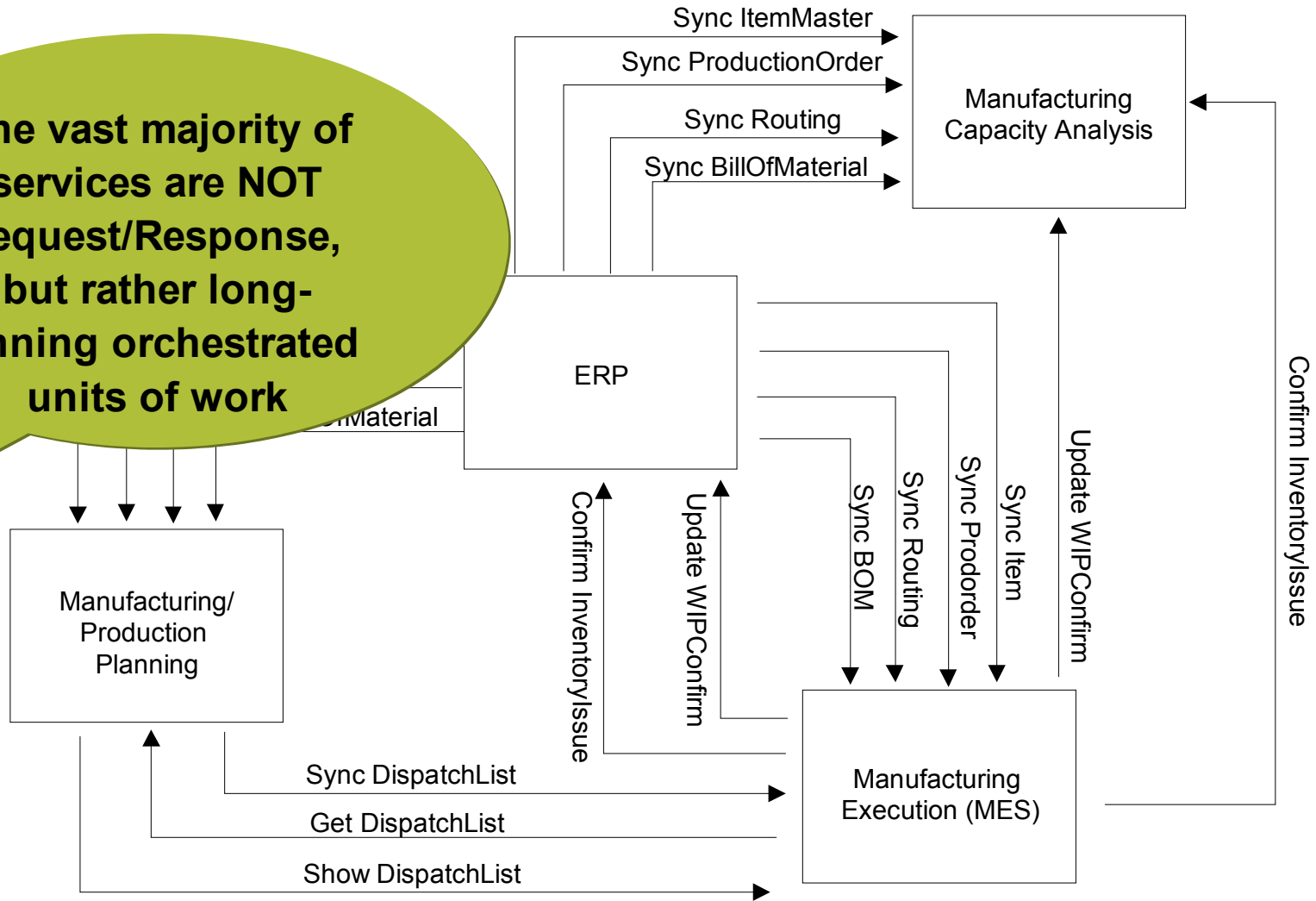
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# The first bricks of massively connected systems have been created

- XML
- « peer-to-peer » asynchronous communications fabric
- The major problem in a massively connected system remains:
  - Managing state changes and in particular state alignment (reliability) between all network endpoints
  - In complete security!

# IT landscape is *de facto* "peer-to-peer"

The vast majority of services are NOT Request/Response, but rather long-running orchestrated units of work

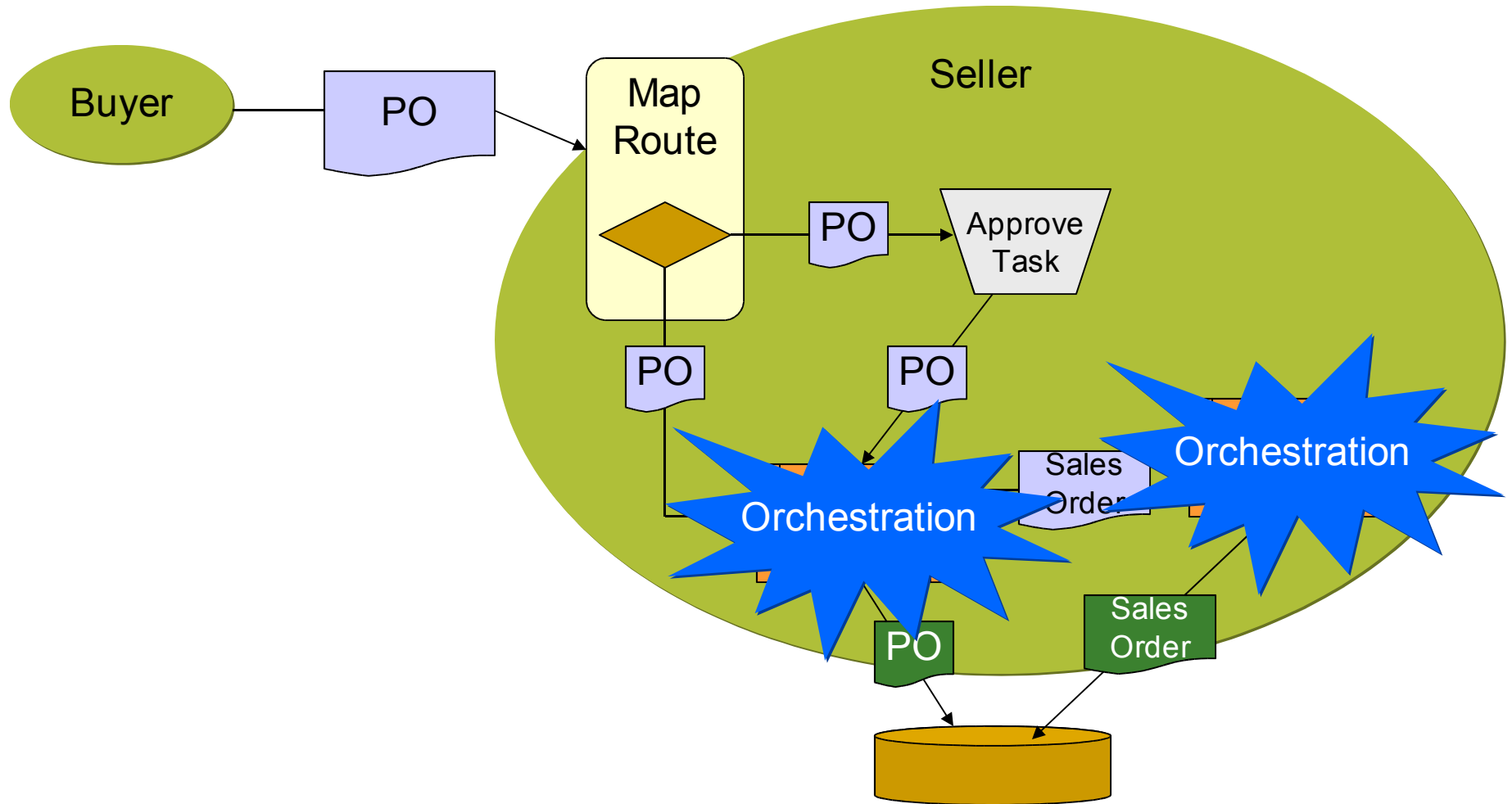


OAGIS 8.x Scenario 50

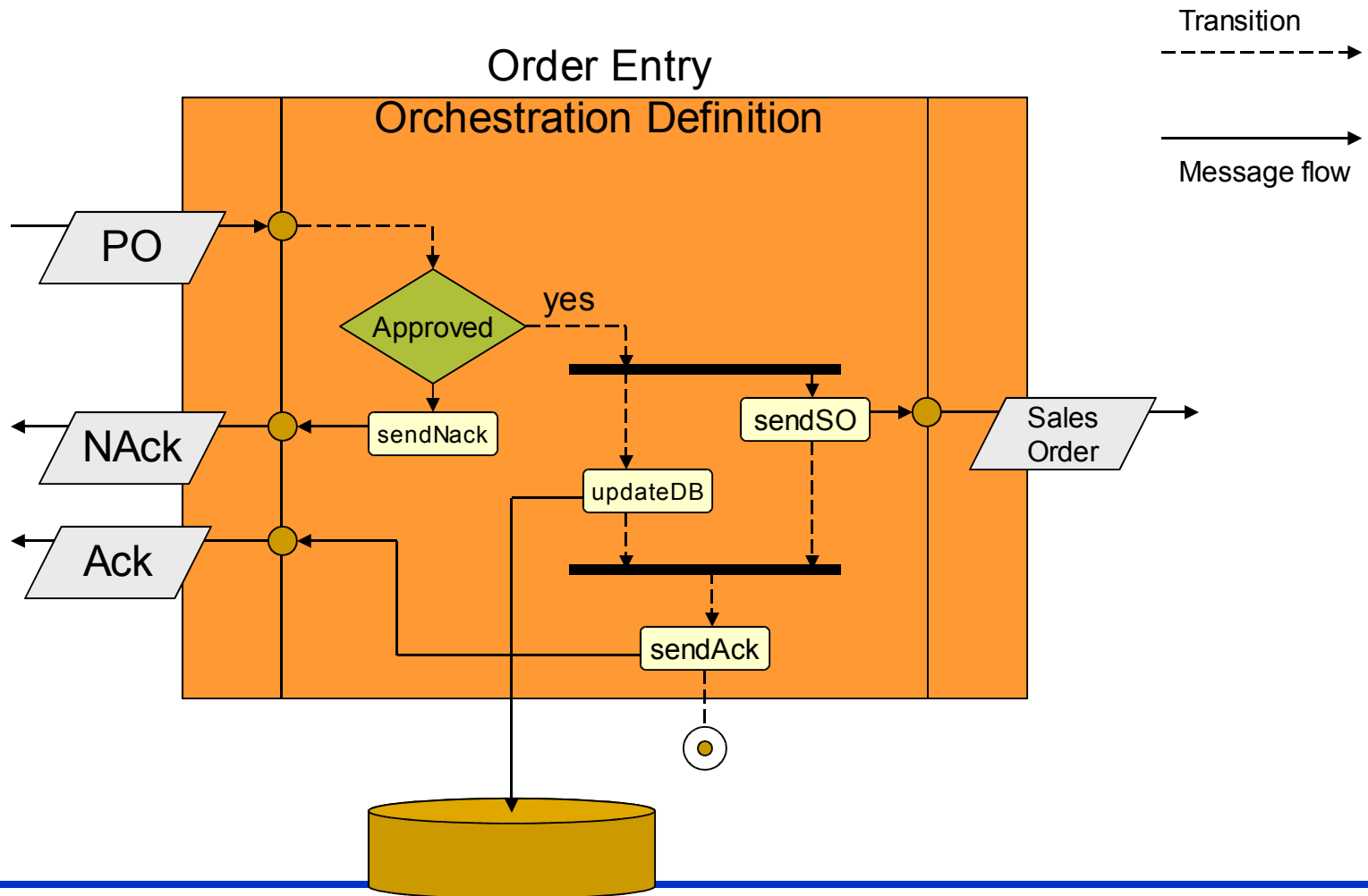
# Web Services in a Massively Connected World



# Business Process Modeling in a Service Oriented World



# Orchestration Offers a Great Model to Express Model-Oriented Business Logic





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So...



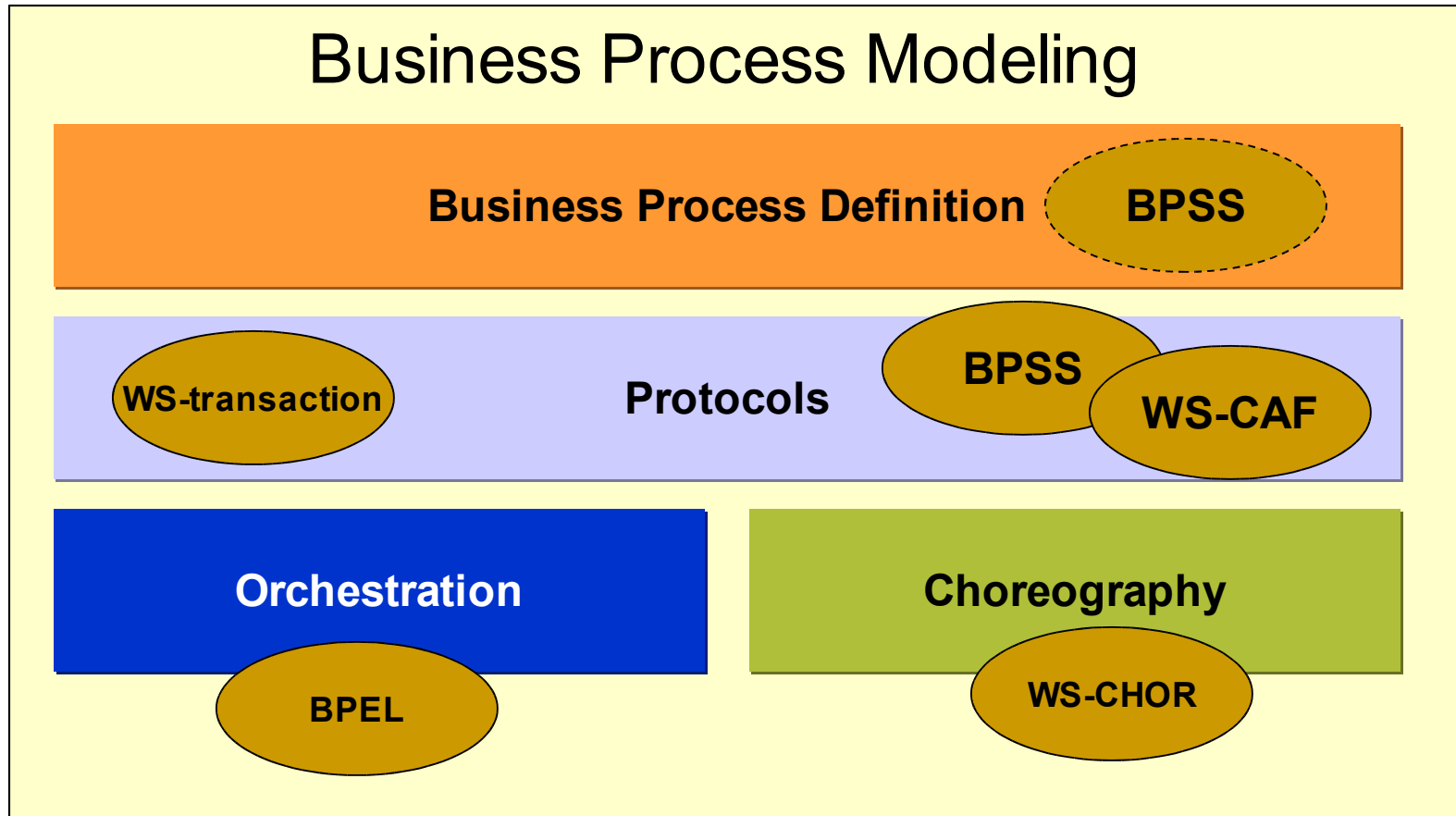
- **Orchestration**

- “[...] is an emerging specification that would give programmers a way to formally describe processes underlying business applications so that they can be exposed and linked to processes in other applications”

- **Choreography**

- Specifies how the processes underlying the business applications are linked together
- A choreography can be « active » when mapping and routing rules are used

# Concepts and Standards for Business Process Modeling



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# Conclusion

- BPM is the 3<sup>rd</sup> fundamental technology for Service Oriented Computing after XML, and Web Services
- After 6 years of efforts, the direction for this technology is still a bit unclear:
  - Orchestration, Choreography, Coordination, Protocols and Collaboration
  - Powerful tools
- The future belongs to the one who will know how to master massively connected systems

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# References

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