



Service Oriented Architecture

Michael Fehse
Chief Scientist
30 Nov 2006

Wednesday 29th November

8h30 - 9h45 Two parallel sessions

Parallel Session 1: Security and dependability

Moderator: Gilles Barthe (INRIA) Speaker: Diego Latella (ISTI-CNR) Speaker: Alvaro Arenas (CCLRC)

Parallel Session 2: Service oriented architectures / computing

Moderator: Michael Fehse (T-Systems) Speaker: Corrado Moiso (Telecom Italia) Speaker: José Fiadeiro (Univ. Leicester)

9h45 - 11h00 Two parallel sessions

Parallel Session 3: Scheduling and monitoring

Moderator: Jarek Nabrzyski (PSNC) Speaker: Stefano Leonardi (Univ. di Roma "La Sapienza") Speaker: Ramin Yahyapour (CoreGRID Institute leader / Univ. Dortmund)

Parallel Session 4: Data management

Moderator: Domenico Talia (CoreGRID Institute leader / Univ. Calabria) Speaker: Evaggelia Pitoura (Univ. of Ioannina) Speaker: Seif Haridi (Swedish Institute of Computer Science)

11h00 - 11h30 Break

Service Oriented Architecture. 2002 McKinsey Company.

Loosening up: How process
networks unlock the
power of specialization

John Seely Brown, Scott Durchslag, and John Hagel III

Cutting-edge companies are swapping their tightly coupled processes
for loosely coupled ones—making themselves not only more flexible
but also more profitable.

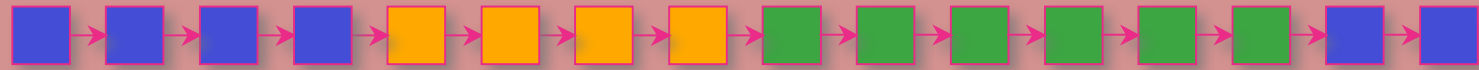
- 1 Recruit participants into process network
- 2 Structure appropriate incentives for participants; encourage increasing specialization over time
- 3 Define standards for communication, coordination
- 4 Dynamically create tailored business processes—involving multiple service providers—to meet customer needs
- 5 Assume ultimate responsibility for end product
- 6 Develop and manage performance feedback loops to facilitate learning
- 7 Cultivate deep understanding of processes and practices to improve quality, speed, cost-competitiveness of network continually

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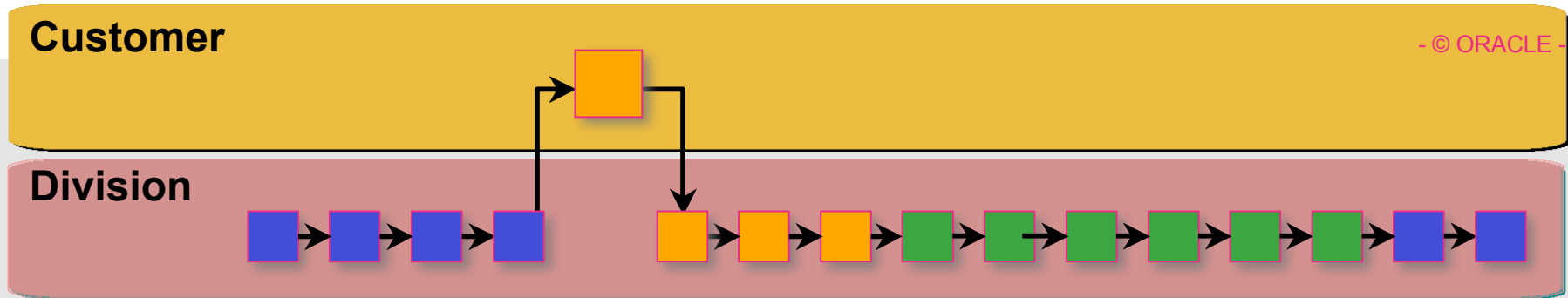
Service Oriented Architecture. Adaptive in Action.

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Division

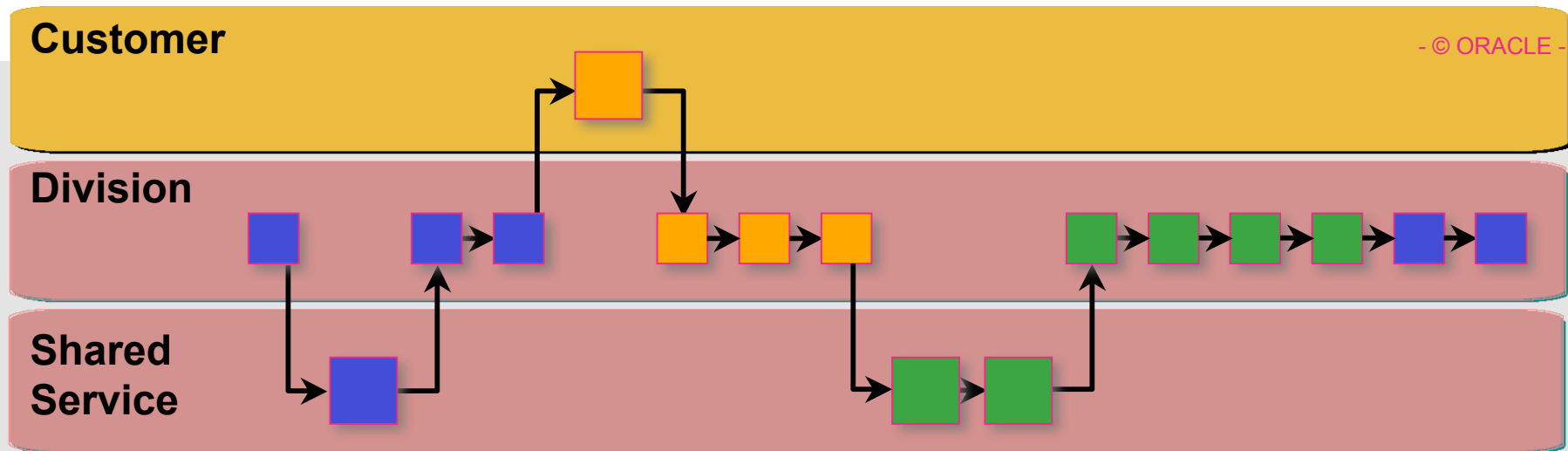


Service Oriented Architecture. Adaptive in Action.



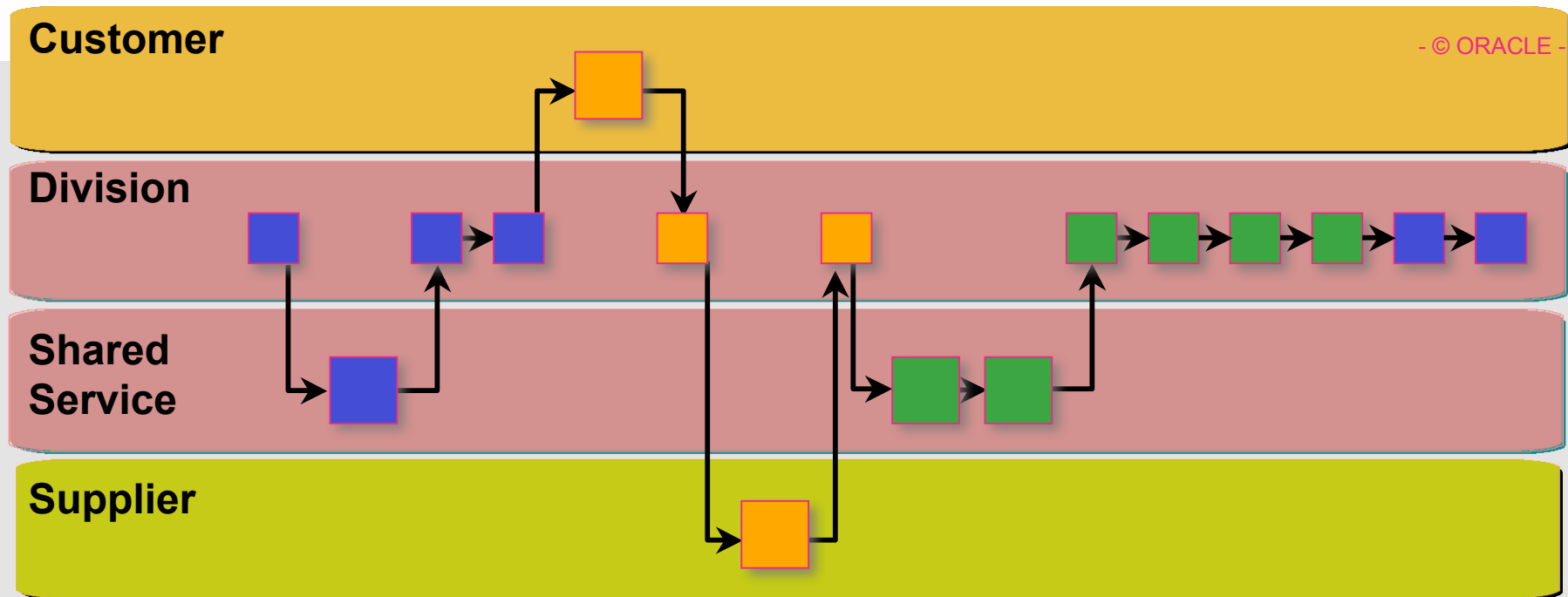
Change: Customer Order Entry

Service Oriented Architecture. Adaptive in Action.



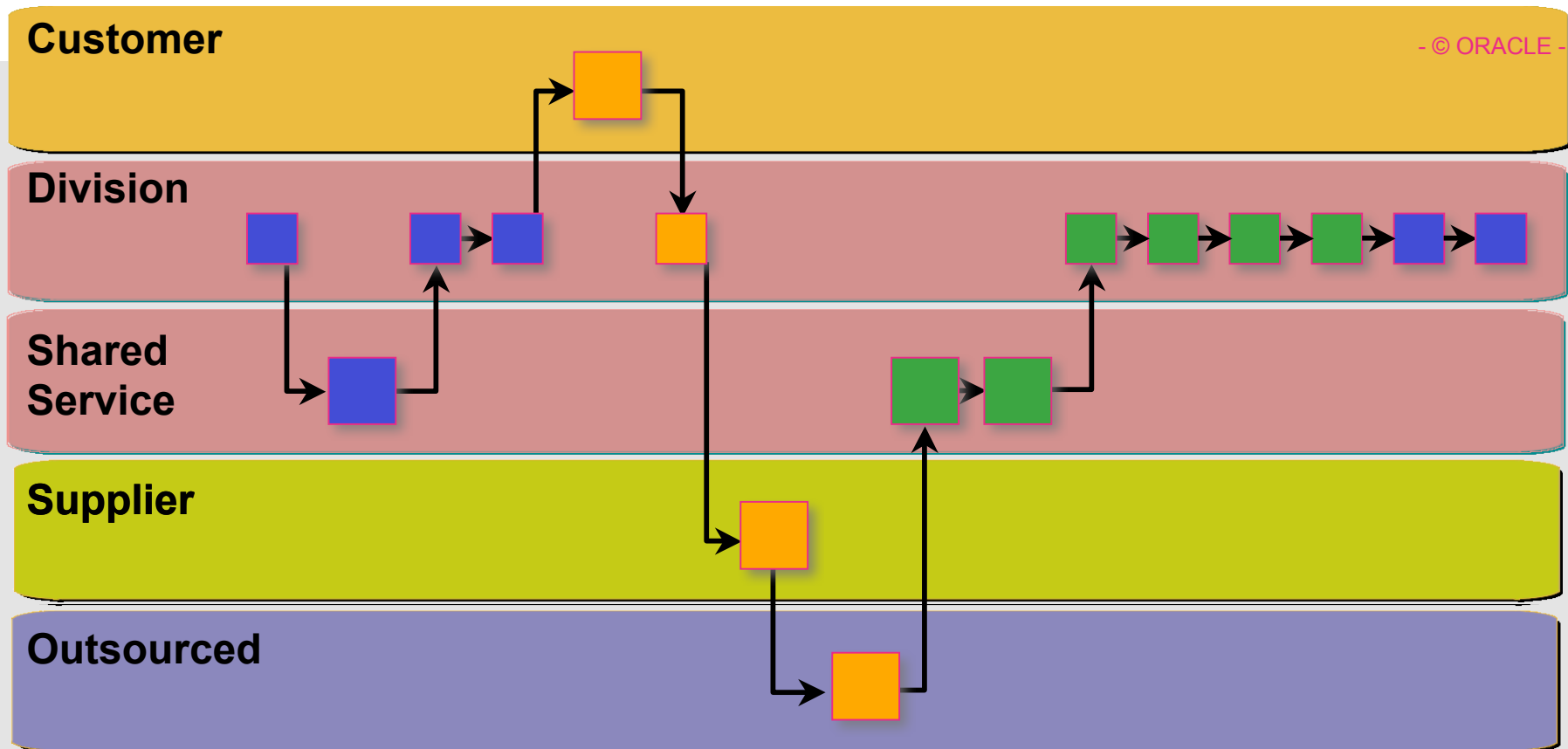
Change: Shared Service – Marketing, Billing, Receivables

Service Oriented Architecture. Adaptive in Action.



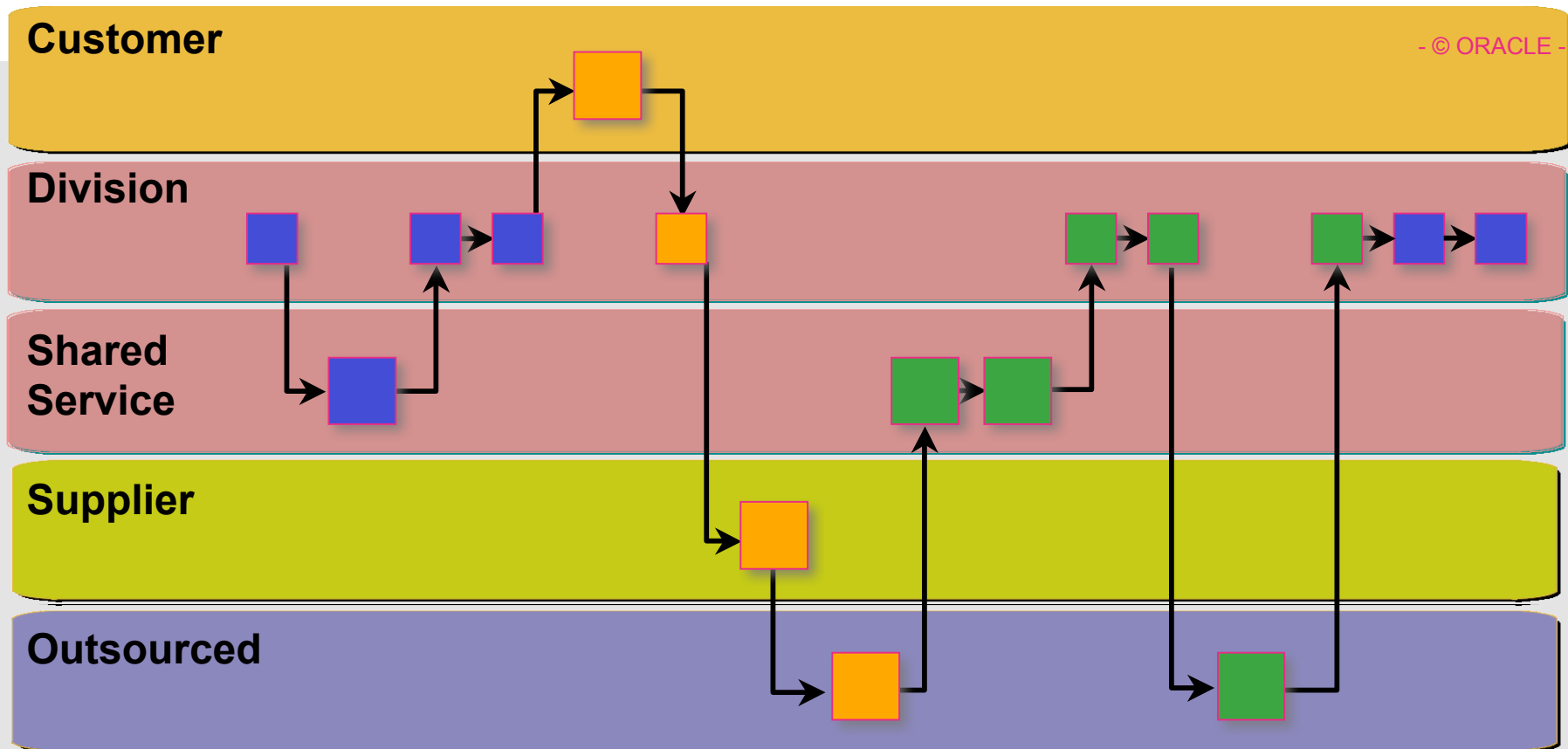
Change: Supplier Handles Inventory (VMI)

Service Oriented Architecture. Adaptive in Action.



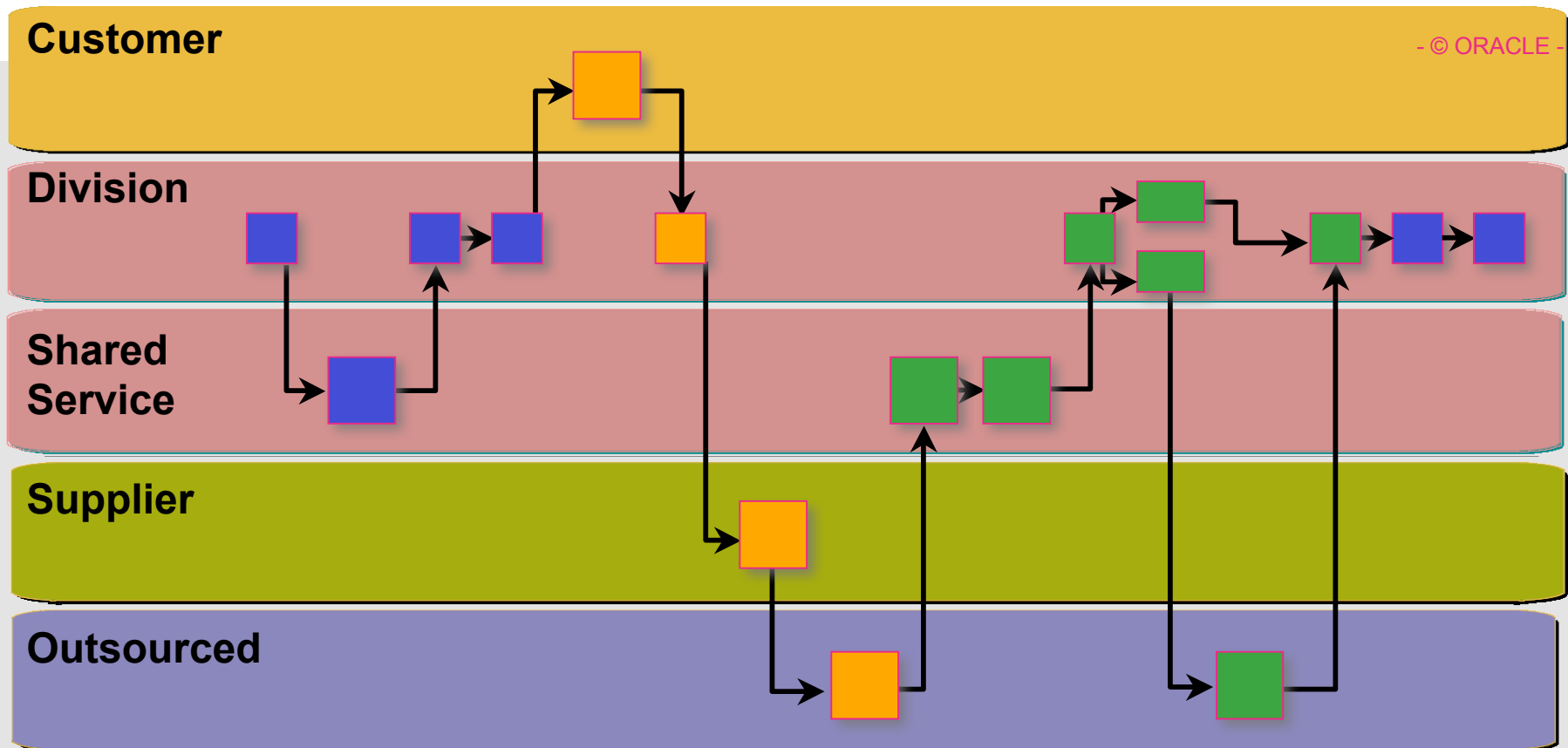
Change: Collections Outsourced

Service Oriented Architecture. Adaptive in Action.



Change: Shipping by FedEx, DHL, or UPS

Service Oriented Architecture. Adaptive in Action.

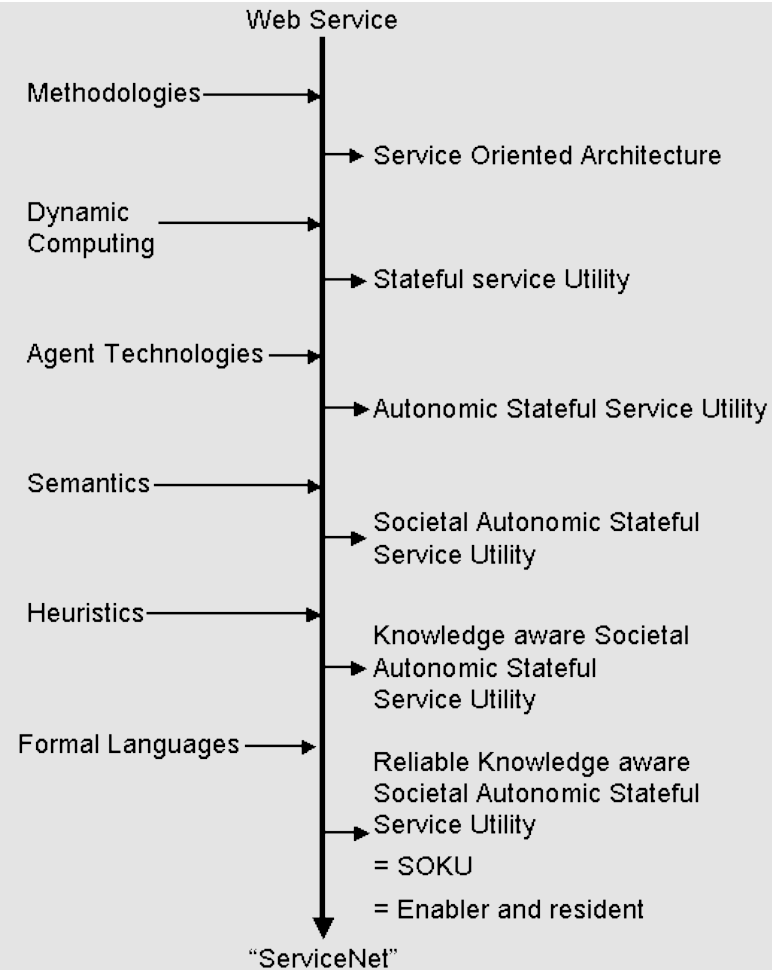


Change: Process Optimization

2010+

Service Oriented Knowledge Utility. Just a reminder...

**technologies
and
methodologie
s already
understood
today**



**Combined to
form new
attributes
to services**



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Service Oriented Architecture Summary

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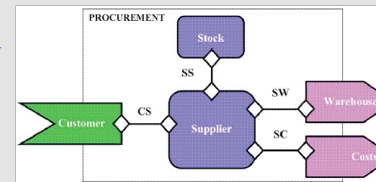
Service Oriented Architecture. Summary.

Requirements

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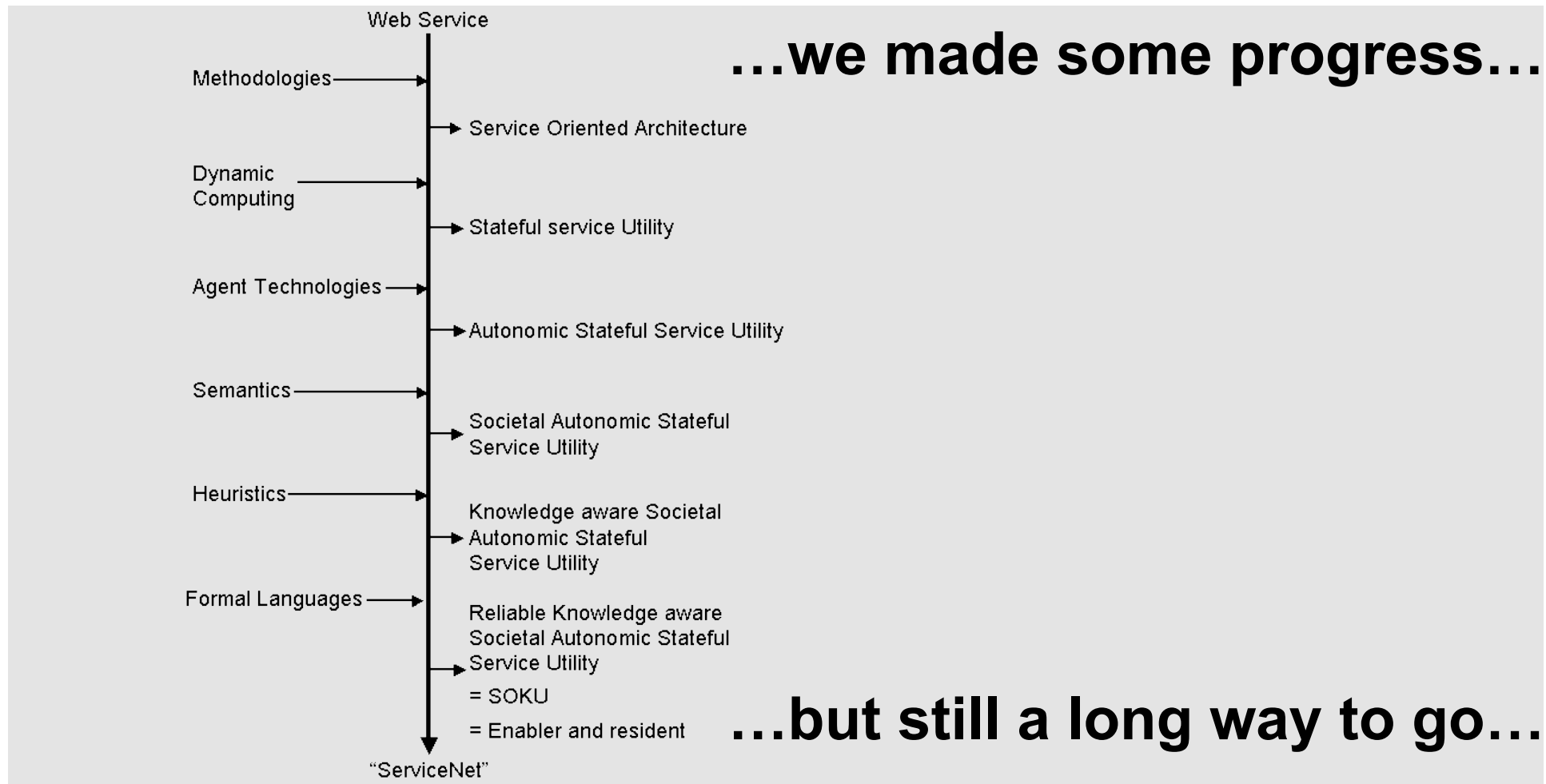
Challenges

- Work across domains
- Viable Business Models
- Governance Model
- Programming Model
- Risk Model / Prime Contractor
- Autonomics



Standardization Wild West to Process

Service Oriented Architecture. Summary.





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