

Standards for production allocation

Improving IT/IM infrastructure decisions, 29 May 2013

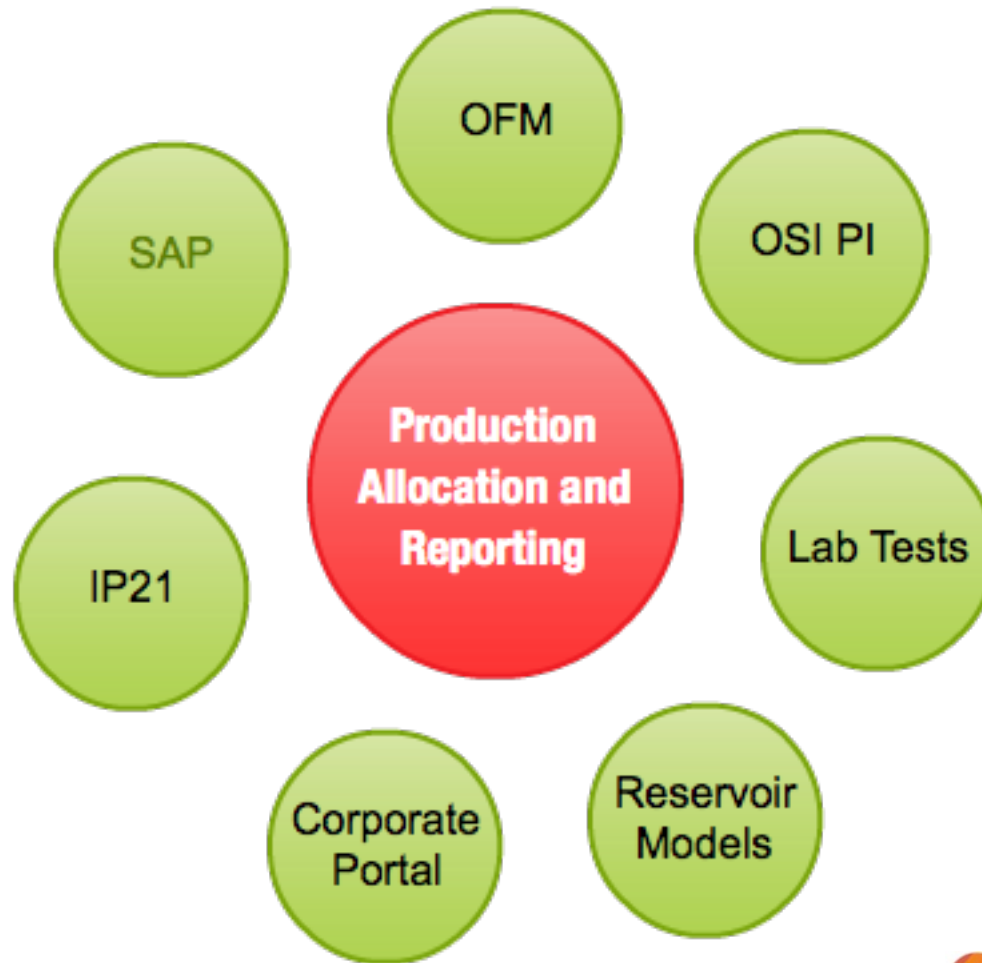
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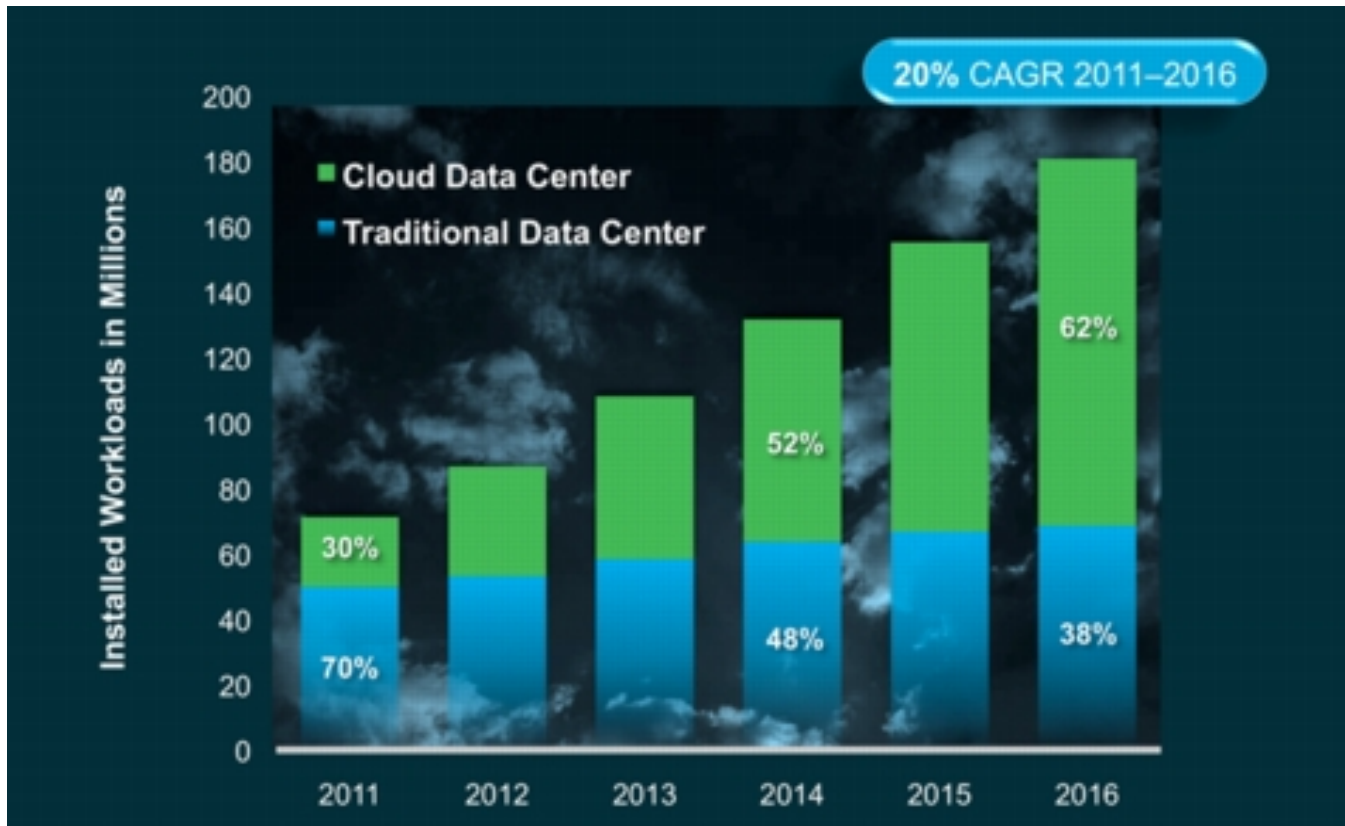
What is production allocation?

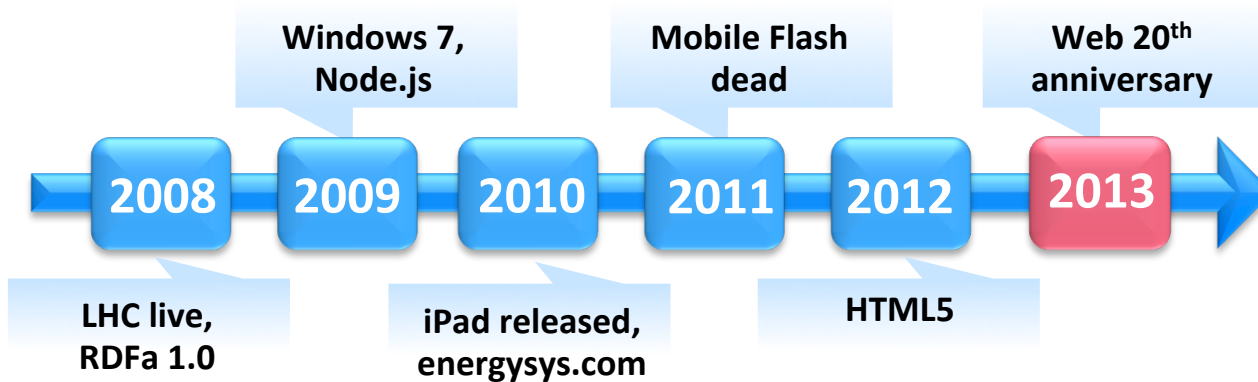
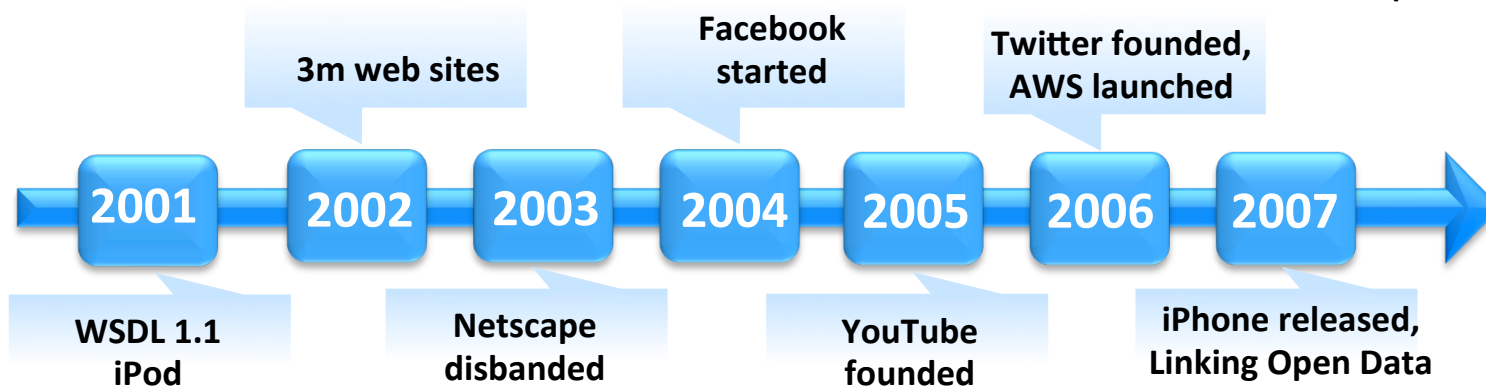
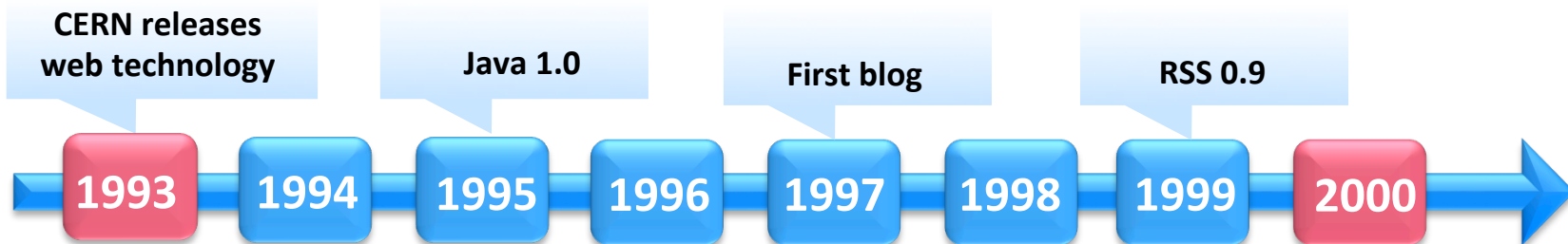
“The process by which measurements of commingled streams are related to multiple points of production, thereby supporting determination of ownership. Allocation may potentially involve oil, gas and water.”

Integration challenges



Cisco Global Cloud Index 2011-2016





The web as archetype: REST

- Stateless
- Uniform interface
 - Identification of resources
 - Manipulation of resources via representations
 - Self-descriptive messages
 - Hypermedia as the engine of state

Standard needs

- Process standards
- Data standards (agreed content-type)
- Service standards



Markup soup



PRODML: The Good

- DTS measurement
- Fluid analyses and samples
- Flow networks
- Production operations reports
- Production reports
- Historian data
- Well tests
- Wireline formation tests



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PRODML: The Bad

- Implicit relationships
- Lack of hyperlinks
- Rigid structures



PRODML: The Ugly

- SOAP-based web service
 - GetData method
 - PutData method
 - DeleteData method
- Service not discoverable
- Data model not extensible
- No URI for representations

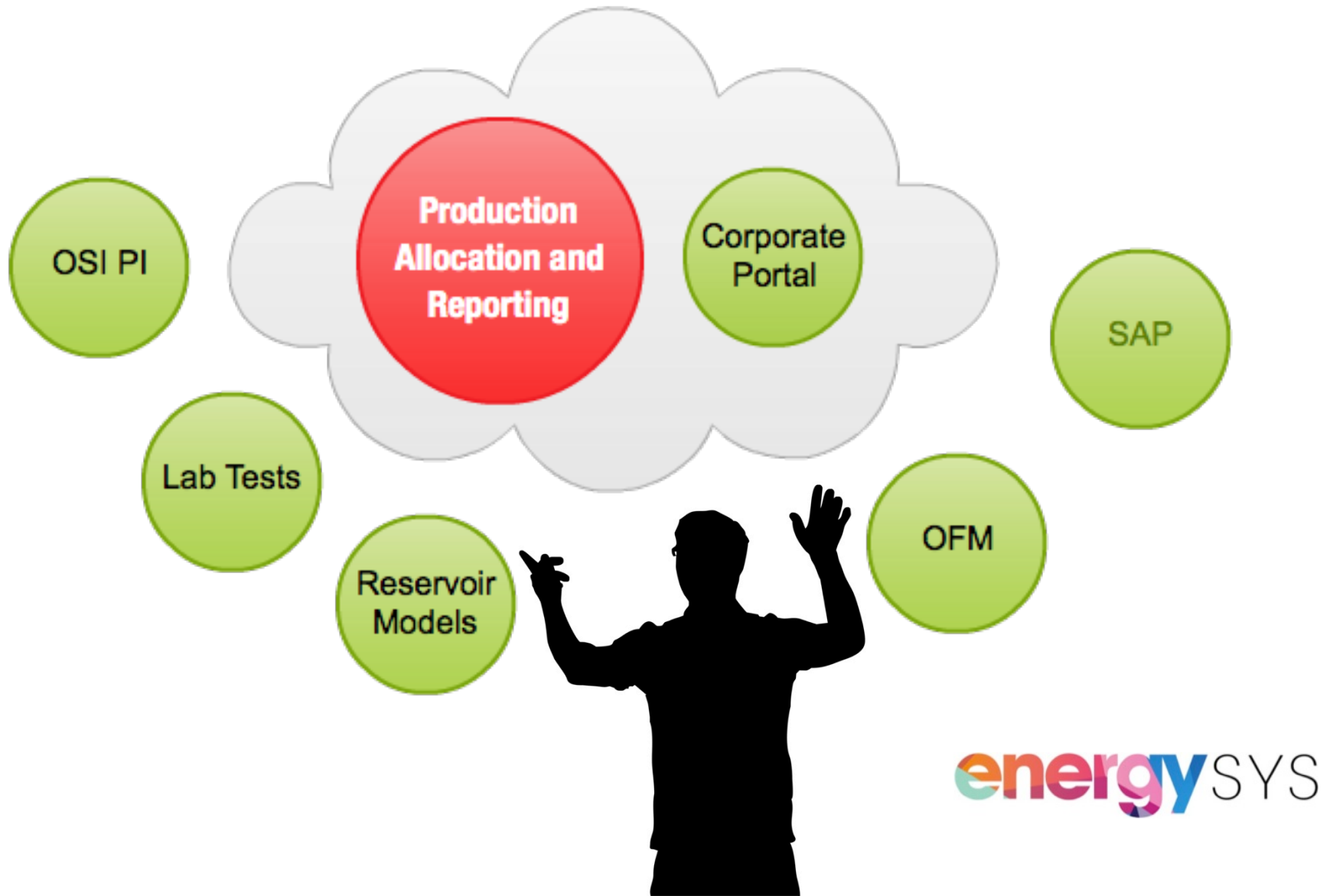


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Imagine

- GET <https://live.energysys.com/123456>
 - Returns asset information
- PUT <https://live.energysys.com/123456>
 - Load data to the asset
- PUT <https://live.energysys.com/process/12224>
 - Load parameters for a process and run it
 - Return document is the URI for the executing process

Imagine



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Our goal

To be a first class
participant in a RESTful
service-oriented
architecture



Questions?

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