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# Lyatiss startup genesis

9 PhDs  
7 international projects  
5 patents  
12 softwares  
2 books + 60 papers



**Intelligent Cloud Network Orchestration**

# Lyatiss vision: « *Networking the Cloud for Quality as a Service* »

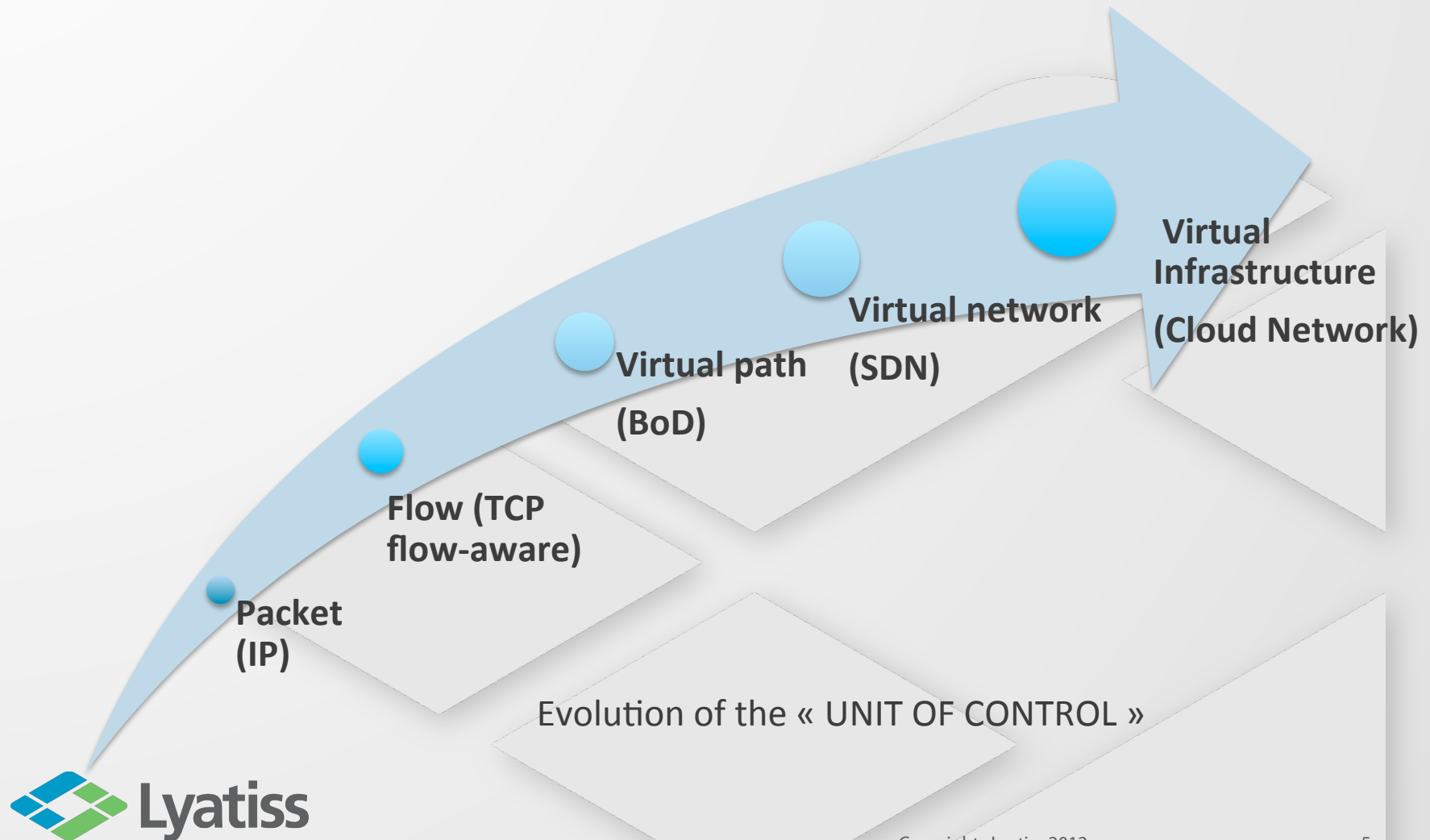
The Lyatiss vision is to empowers **DevOps and NetOps**  
With software-defined **Cloud Networks**  
enabling **end to end quality as a service.**

- Software-Defined Cloud Networks are **Virtual Networks**:
  - 1) composed of **virtual network devices** and **virtual links** connecting virtual machines
  - 2) **defined**, extended and reconfigured by **software**
  - 3) provisioned **on demand** and pay per use.

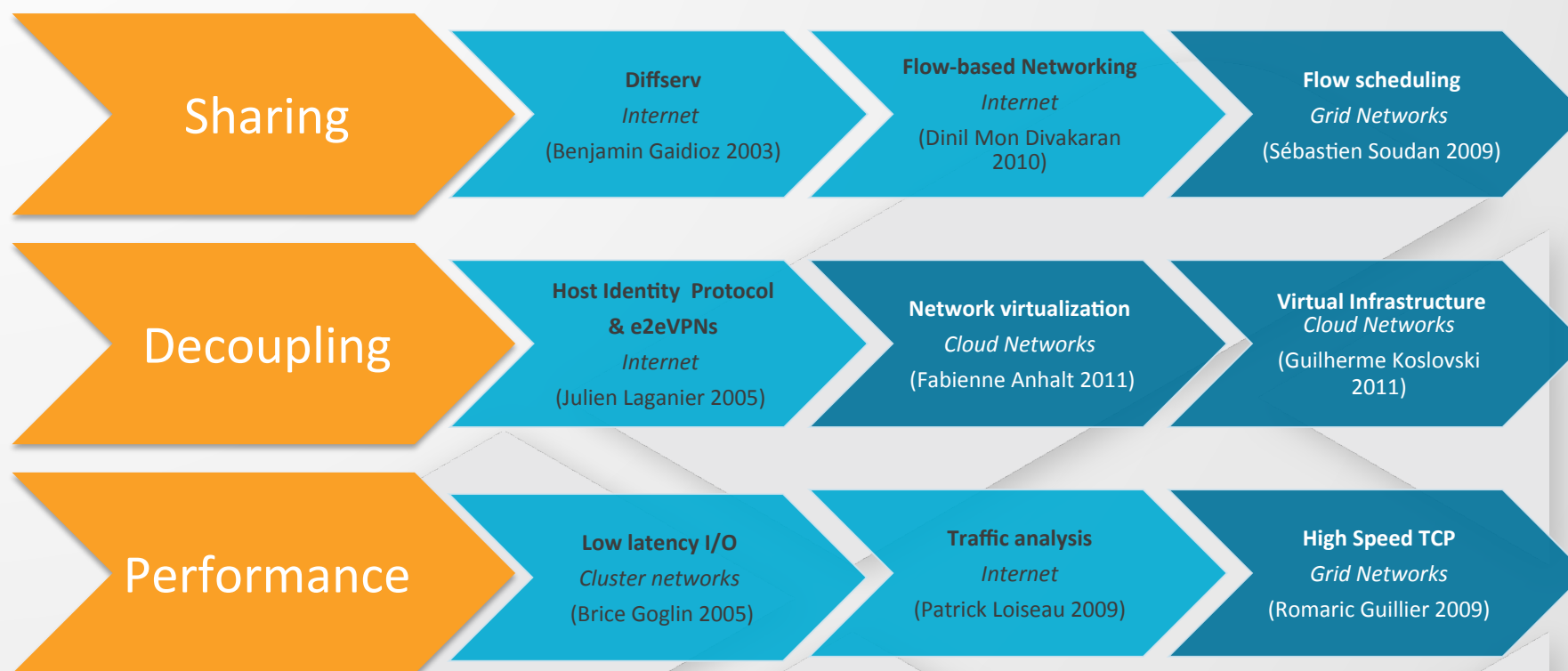
# From Reso to Lyatiss

- RESO explores high speed networks for high **demanding** applications
  - Latency, Bandwidth, Security, Reliability, Scalability
- Key research issues for network evolution in the context of an Internet of Services/Cloud
  - Understand the needs for **Service Levels**
  - Control the **Sharing** to deliver Service Levels in dynamic context
  - Find the right **Abstraction** level (unit of control)
  - Maintain **High performance** & efficiency end to end

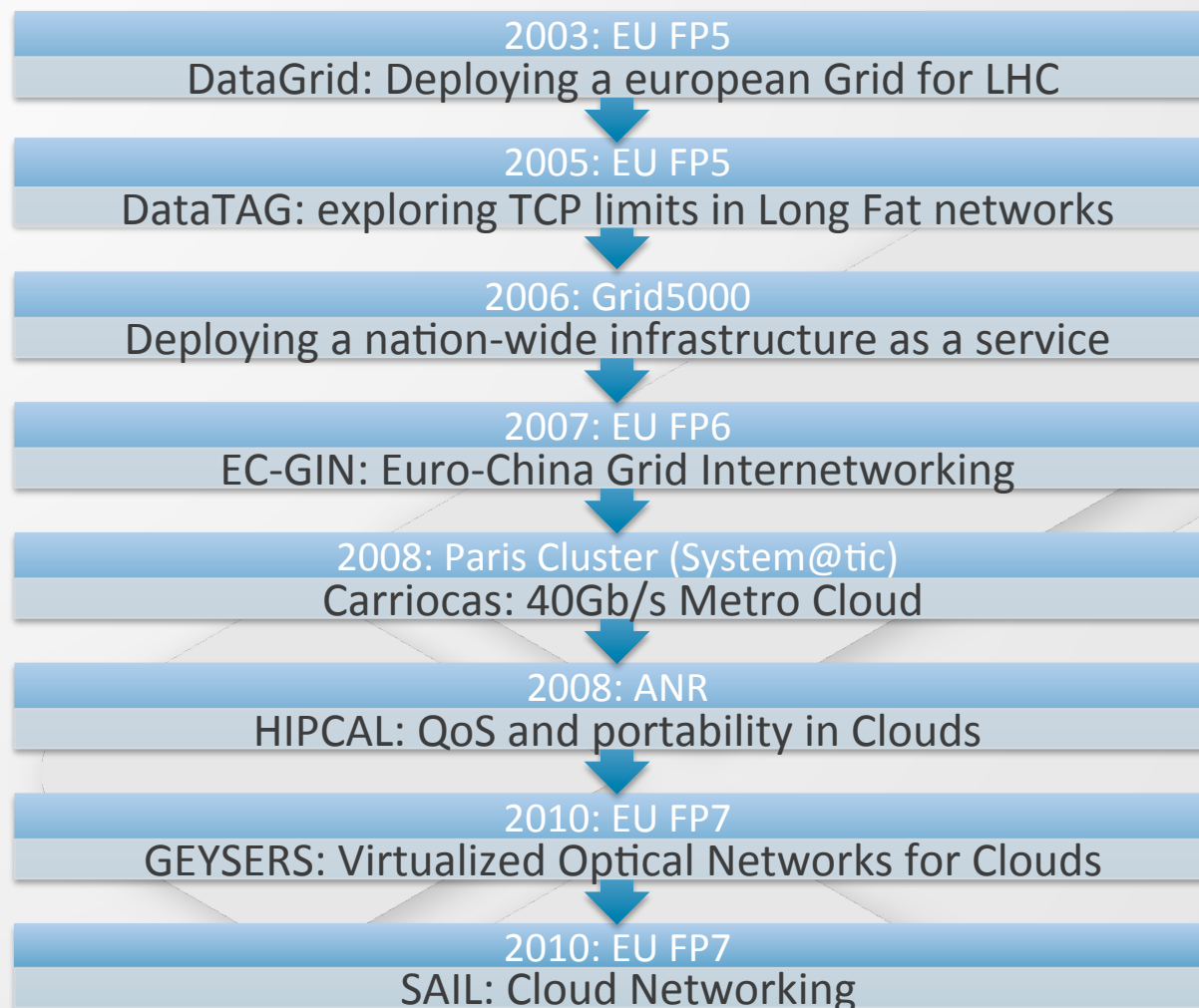
# Rationale for Virtual Infrastructure



# Research background to Start Up



# Projects to Start Up



# Awards to Start Up

- 2009: Marconi Young scholar (Sebastien Soudan)
- 2009: Oseo Emergence
- 2010: Oseo Creation-Development
- 2010: Legion of Honor (Pascale Vicat-Blanc)
- 2011: Irène Joliot-Curie Award (Pascale Vicat-Blanc)



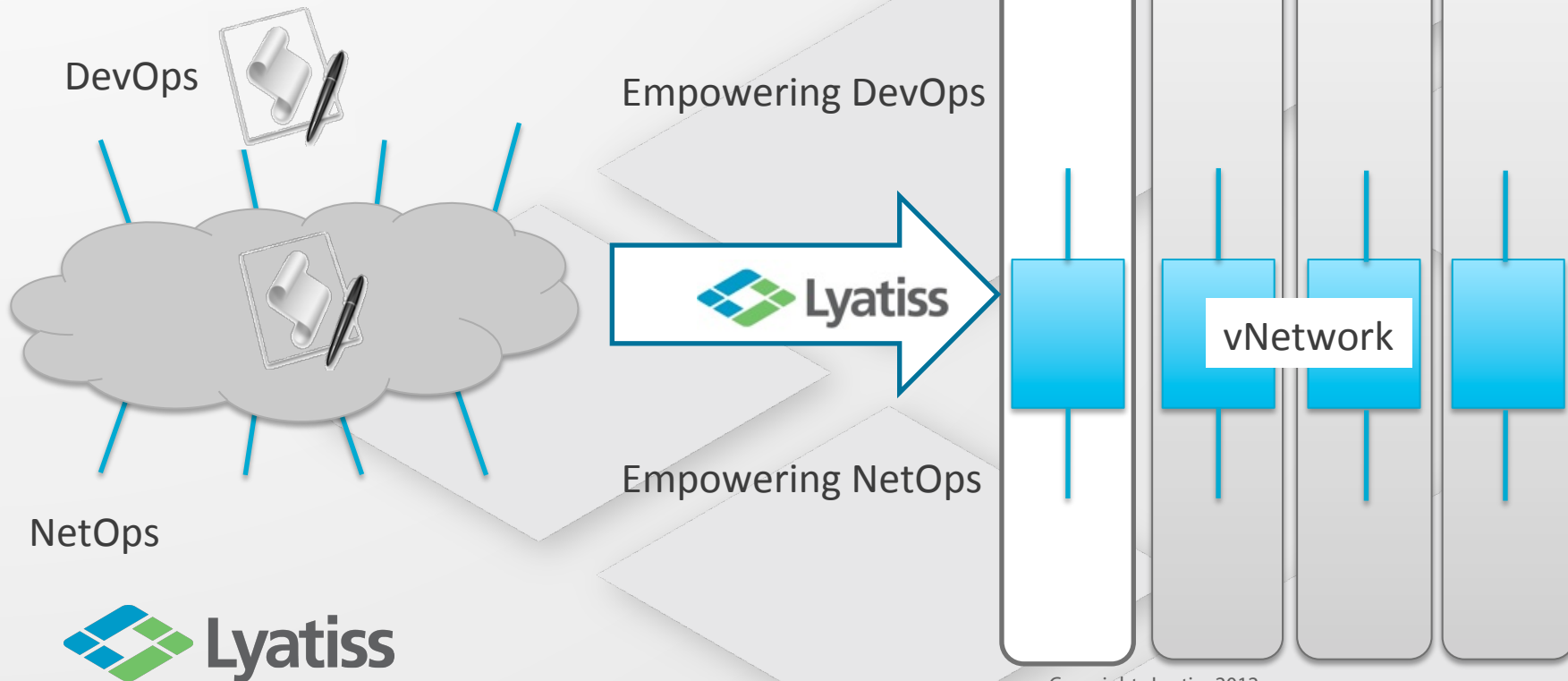
# Lyatiss: Intelligent Cloud Network Orchestration

## Problem

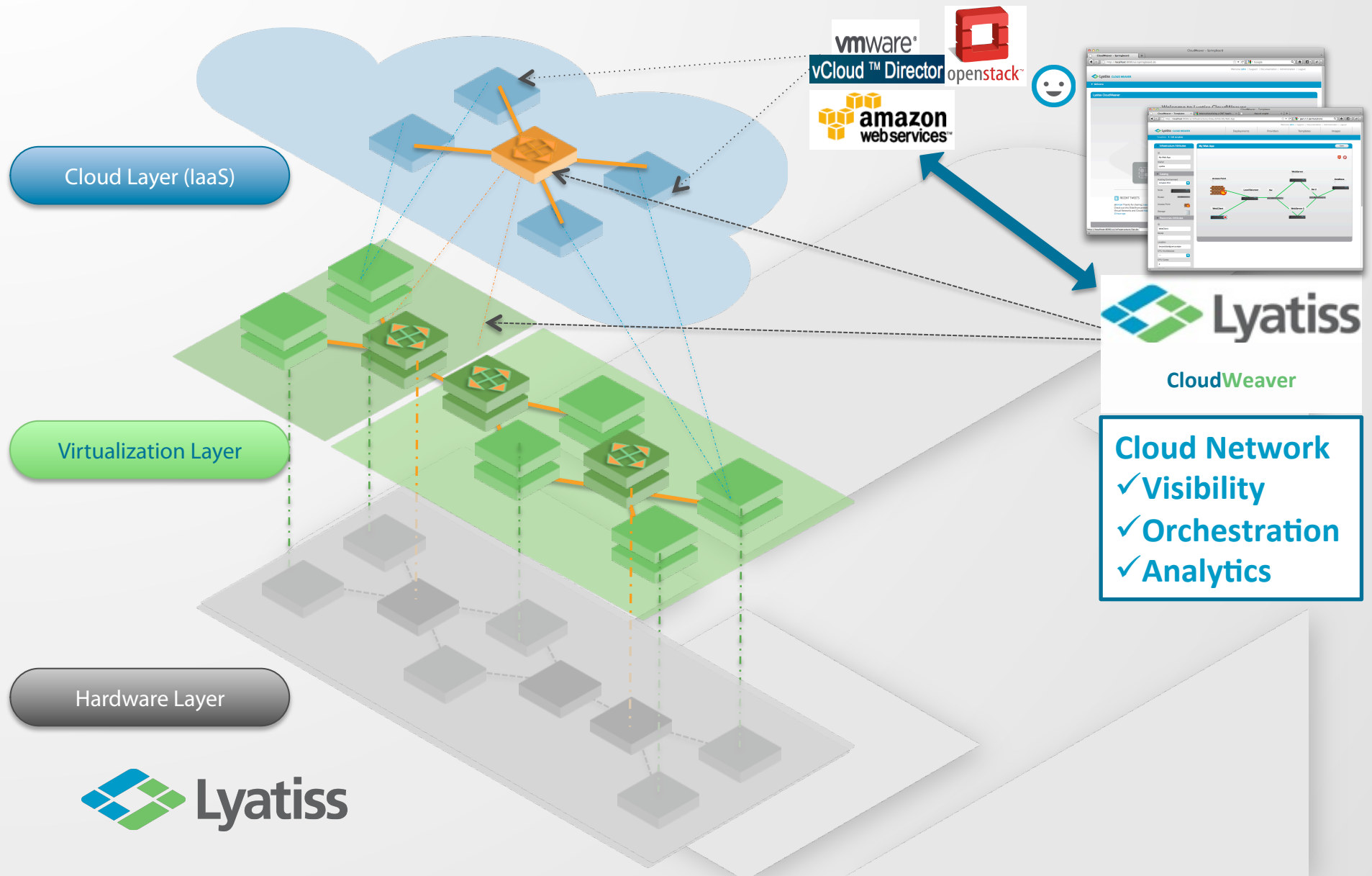
Uncontrolled sharing  
Simple scripting  
Intensive hands-on

## Solution

Slicing the Network Holistically  
Programming Language (VXDL)  
Decision & Ops Automation



# CloudWeaver in your environment



# Lyatiss today

- Launched mid 2010 - Staff of 13 (4 PhD)
  - VC-backed in France – Seed : \$0.5M ; (Serie A: \$5M to be announced)
  - Offices in San Francisco, California and Lyon, France
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- 5 Patents + 12 software transferred from INRIA/ENS – Exclusive Licence
  - Early adopters in Europe: SFR, I2CAT, Ericsson, HP, PT.
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- *CloudWeaver for prototyping v1.0 delivered as appliance & on-line.*
  - *CloudWeaver for DevOps will be released in June 2012*



**Pascale Vicat-Blanc**, PhD, LH, founder, CEO  
Former Research Director at INRIA, INRIA-Bell Labs,  
CIO G5K Lyon, project leader with CERN, EU, JP, US labs  
Irène Joliot Curie 2011 award (Enterprise-Women)



**Sébastien Soudan**, PhD, founder, CTO,  
Marconi Young Scholar Award 2009.



**T.M. Ravi**, Executive Chairman  
Former CEO Mimosa, CMO Iron Mountain

#### *Advisory Board:*

**Simon Crosby** (CEO Bromium, former CTO Citrix)

**Marylène Delbourg-Delphis** (Serial entrepreneur: 4D, Brixlogic)

