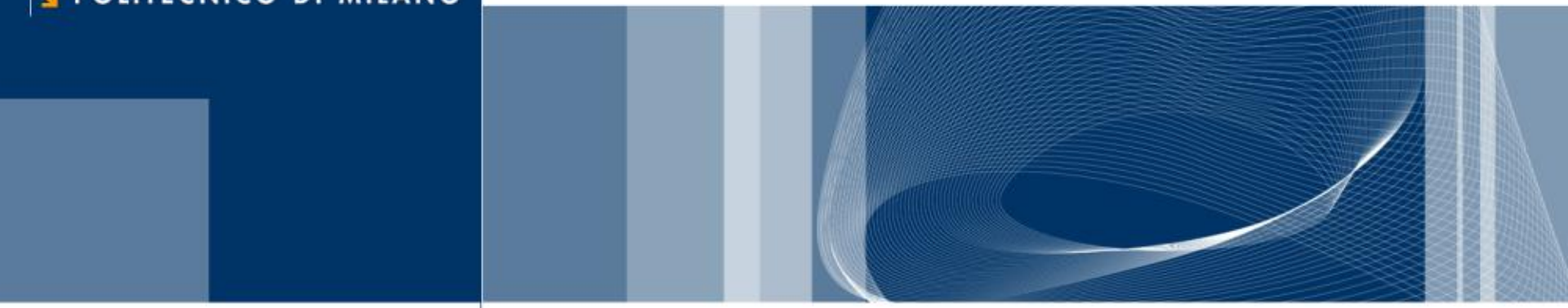
POLITECNICO DI MILANO



SPACE4Clouds: a DevOps Environment for multi-Clouds Applications

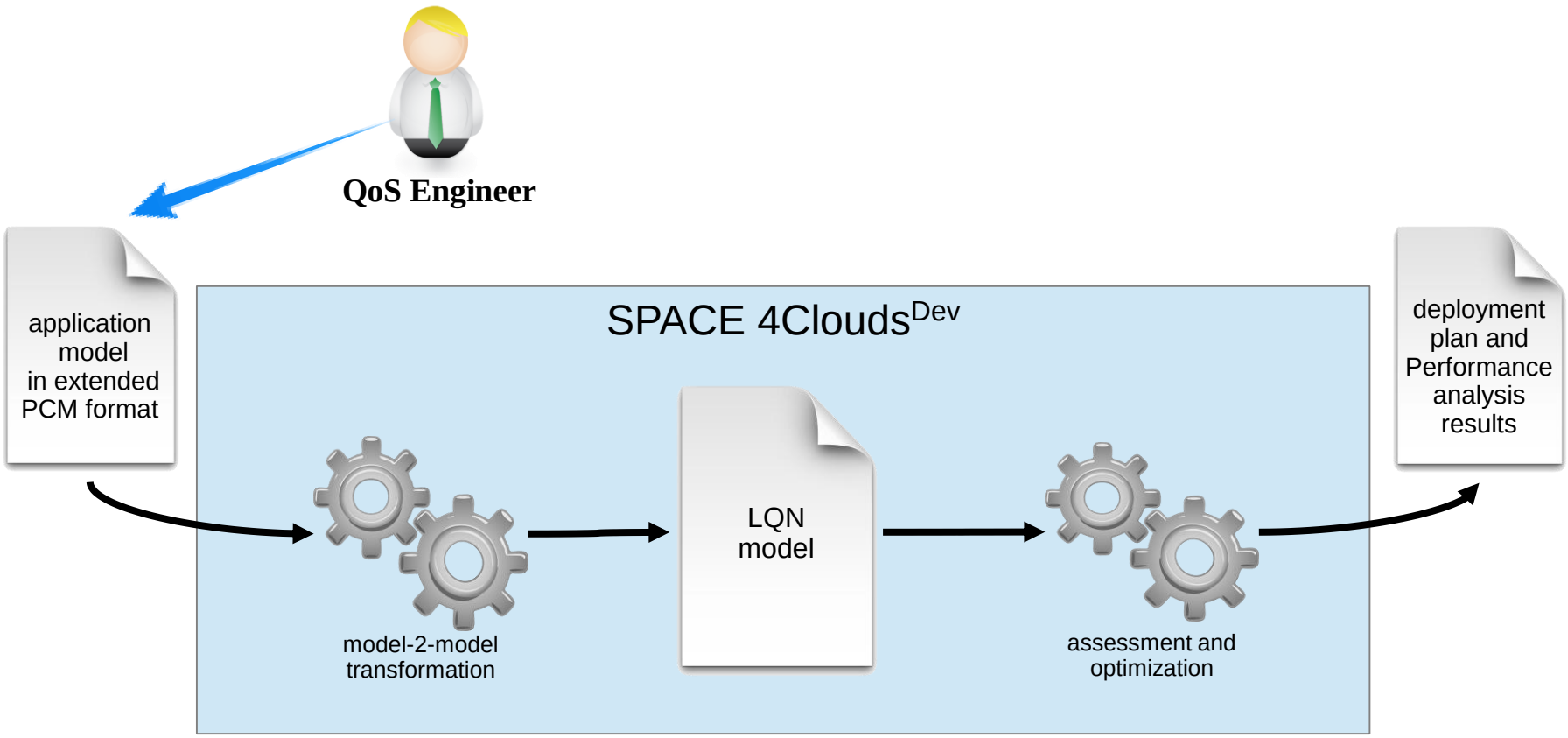
Motivation

- Applications have grown in size and scope
- The rise of Cloud computing
- Need for quality-assurance
- DevOps philosophy

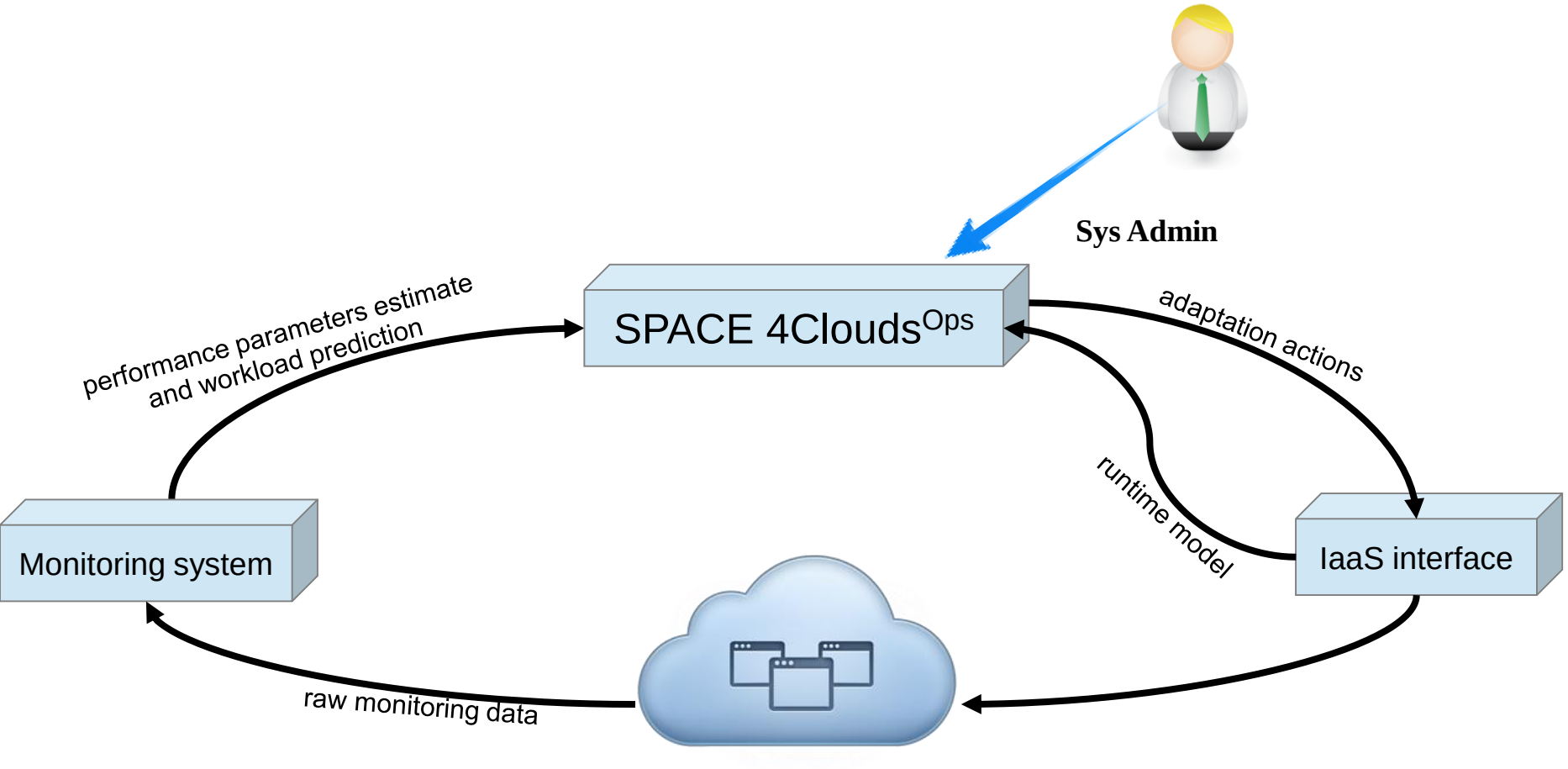
SPACE 4Clouds

- What is SPACE 4CLouds?
- The MODAClouds project
- Composed of two main tool
- Developed in Java under Apache 2.0 license

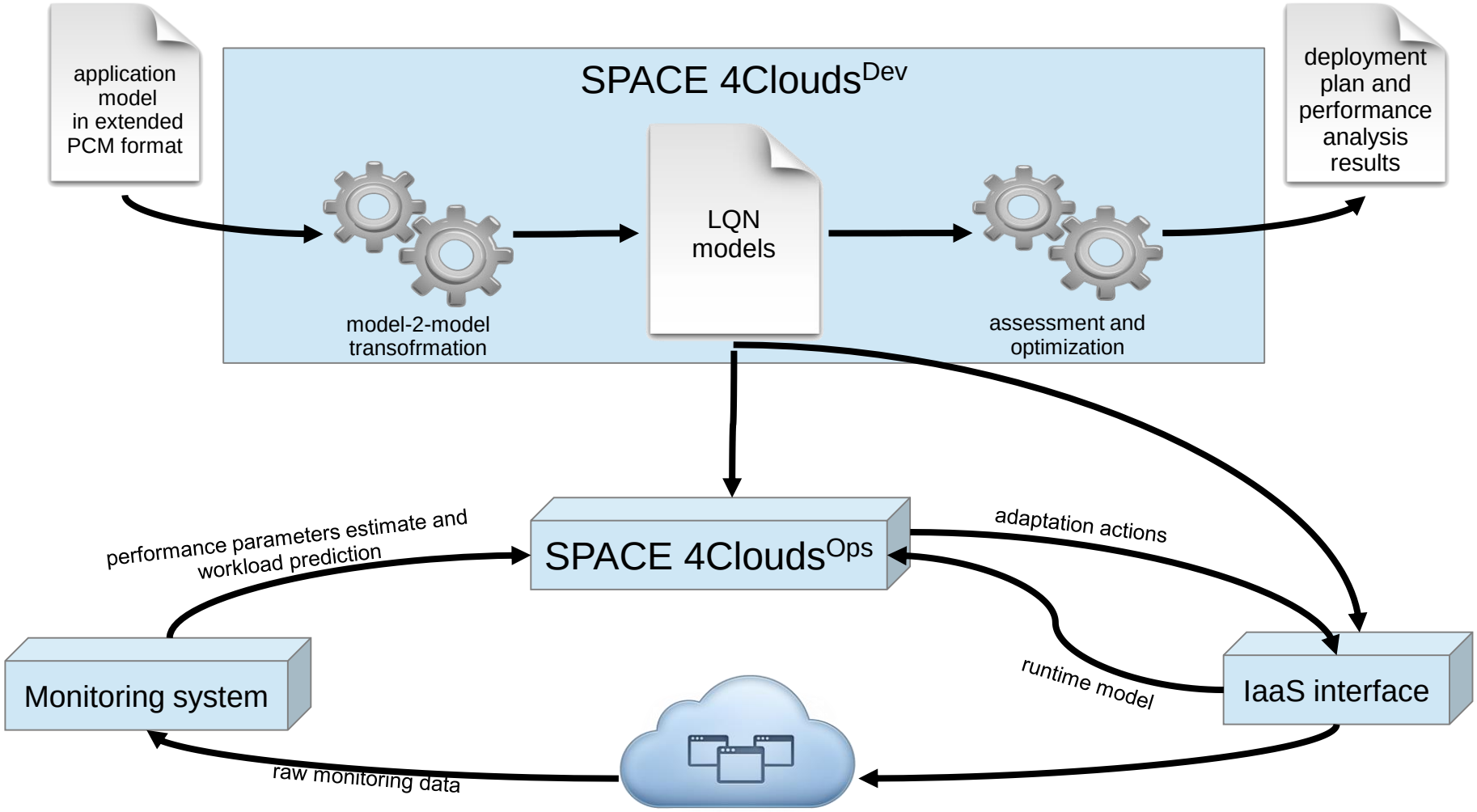
SPACE 4Clouds^{Dev}



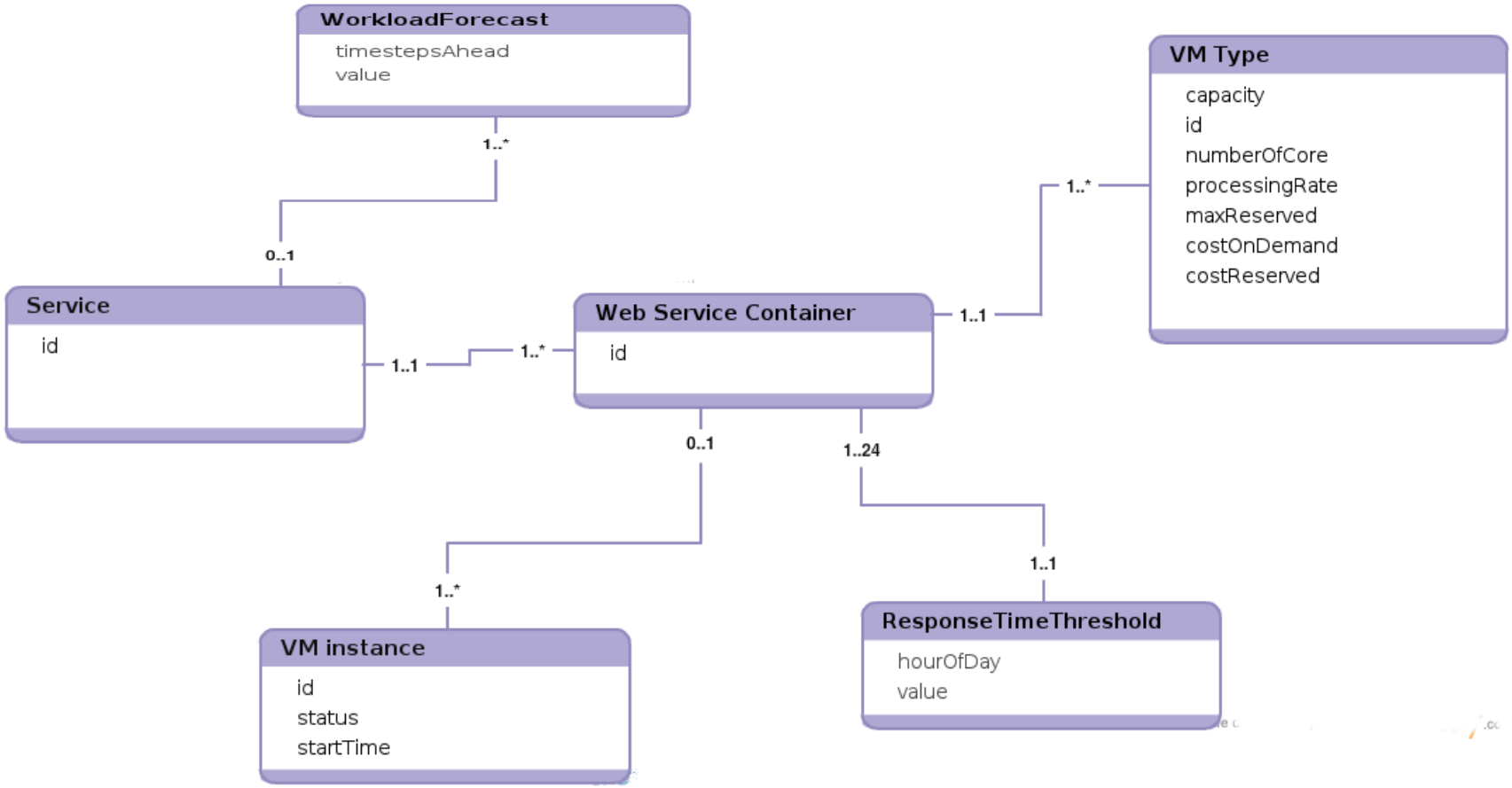
SPACE 4Clouds^{Ops}



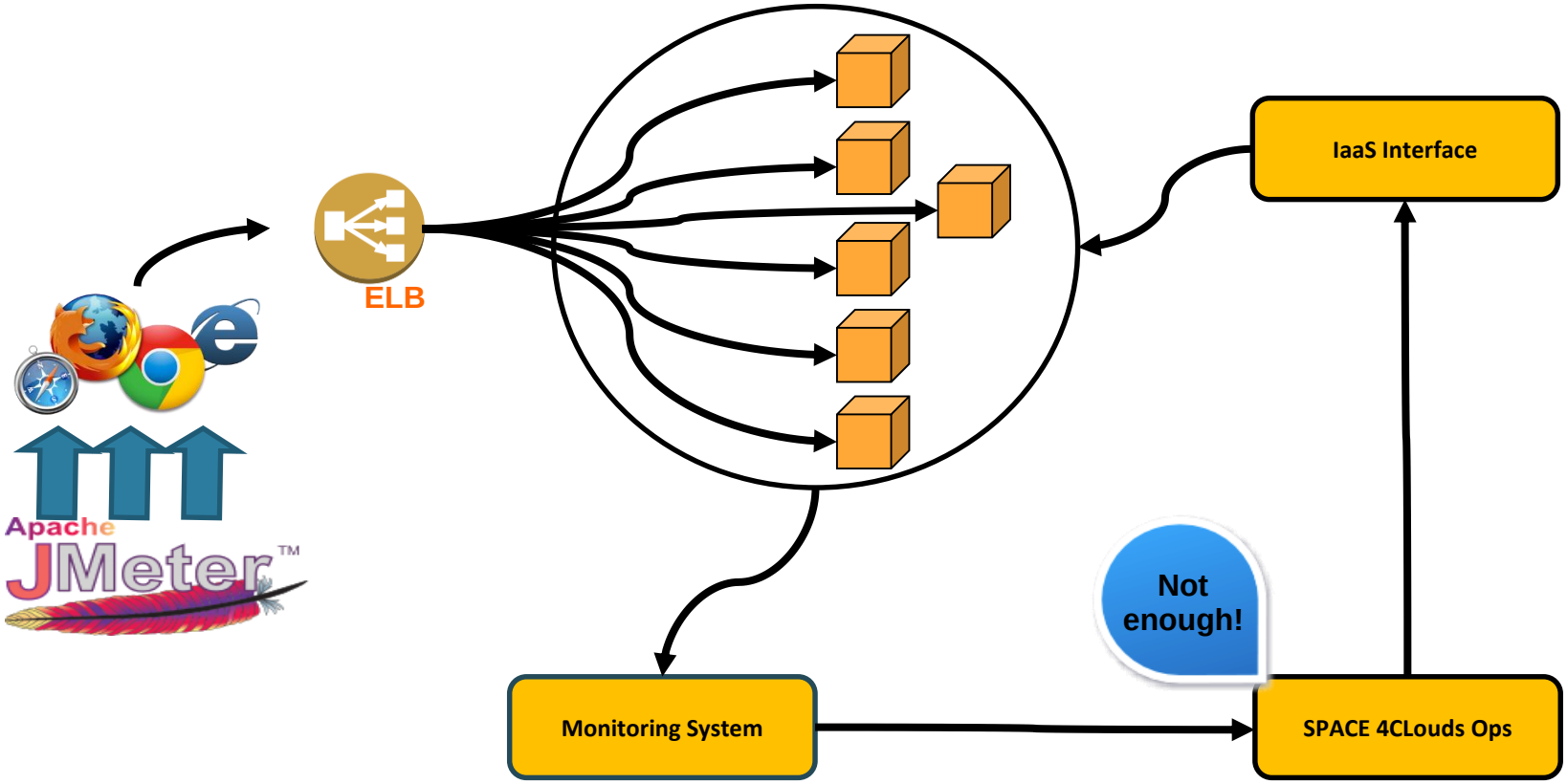
DevOps Environment



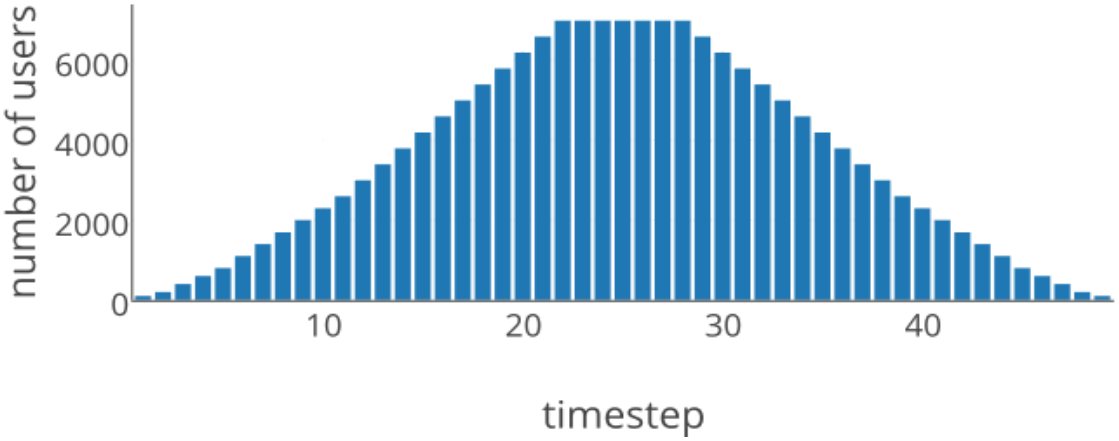
The adaptation model

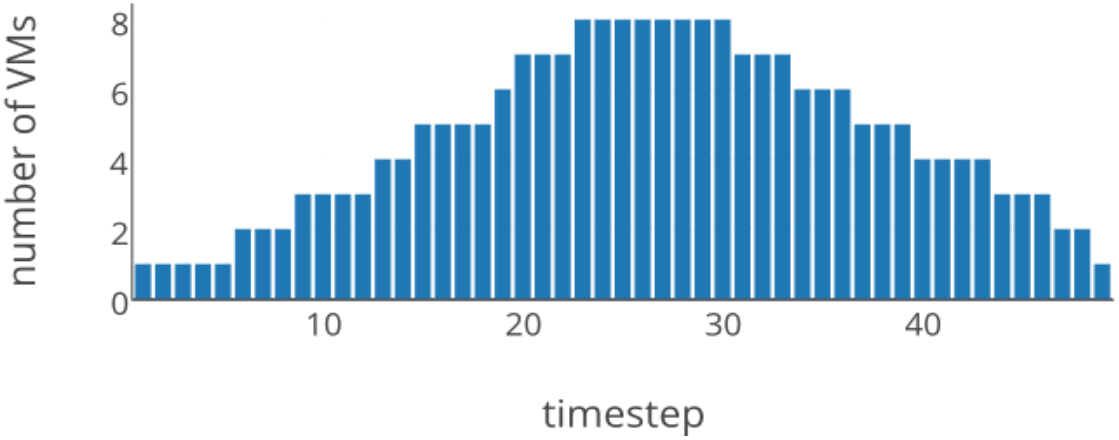


Design of the Experiments



Proof of Effectiveness





Conclusion and future works

- A joint DevOps environment for quality-aware Cloud applications

- Future works:

1) More performance analysis
2) Management of PaaS platforms and multi-Cloud applications
3) Feedback mechanism
4) Toward the DICE project

Request for feedback & a provoking question

- How to correctly set up multiple components time-scales?
- Is Cloud just Ops? How much do design time decisions impact on runtime performance and costs?

Q&A