

Equipe SPARKS  
groupe MUSCAT\*

Focus sur l'IE :  
Requirements in  
action



## People

### Faculty



**Mireille Blay-Fornarino**

Professor, (Université Côte d'Azur)



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Assistant Professor, (Université Côte d'Azur)

### Graduate Students



**Yassine  
Elamraoui**

MSc 2019



**Johann  
Mortara**

MSc 2019

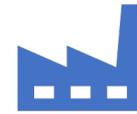
# Développement continu de grands systèmes



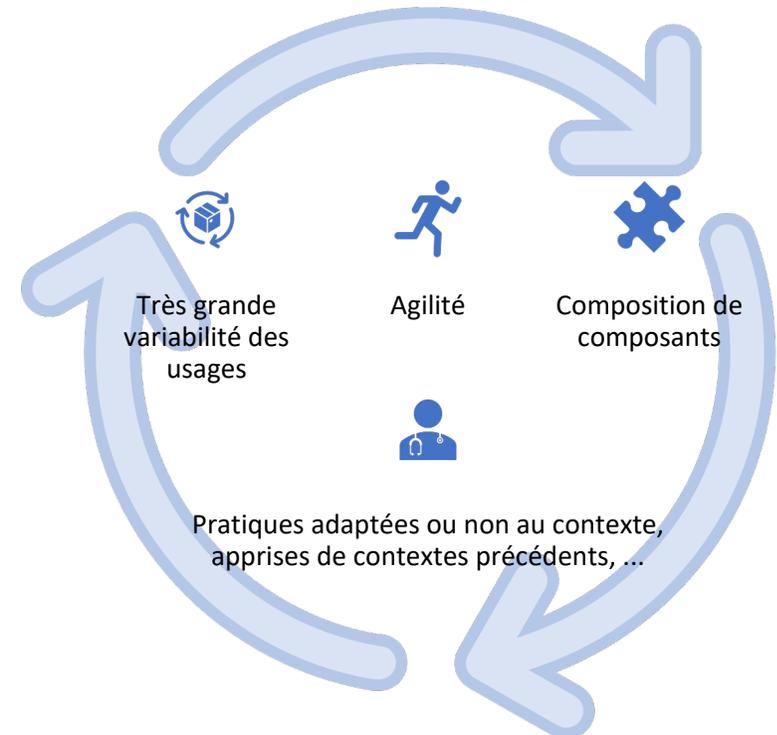
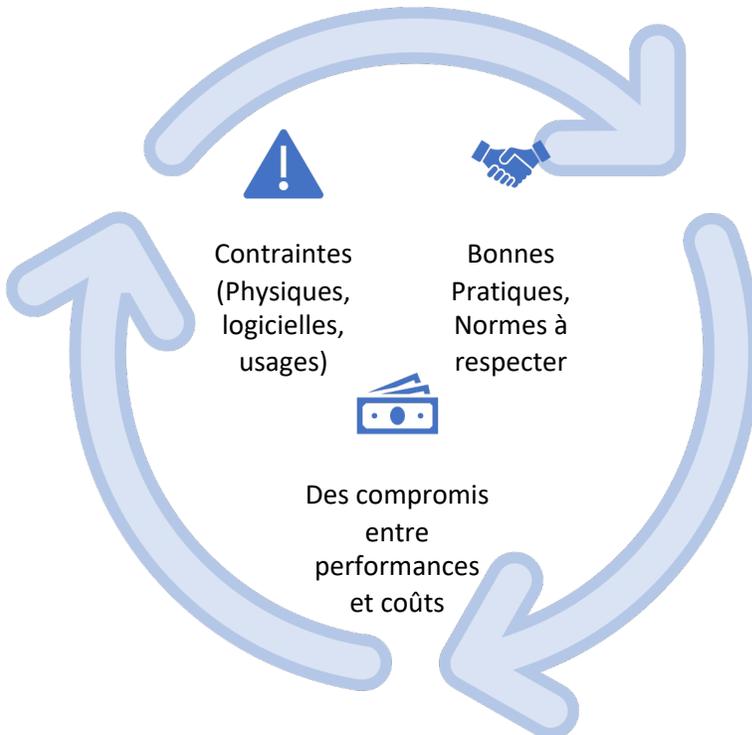
Exigences



Interactions



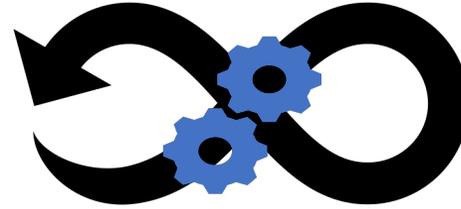
Dev+Ops



# Développement continu de grands systèmes : systématiser les interactions entre exigences et toutes les étapes du Dev+Ops



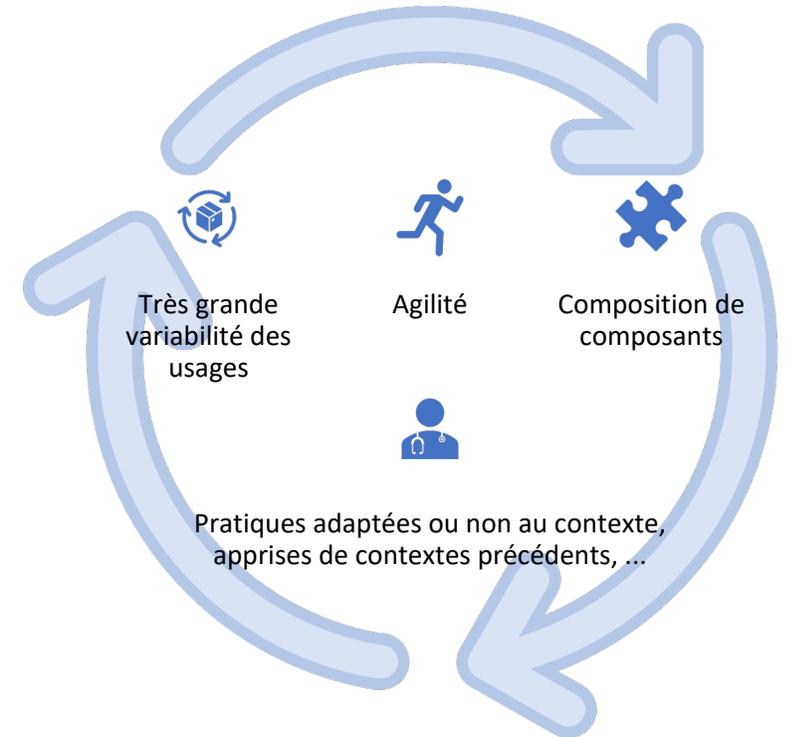
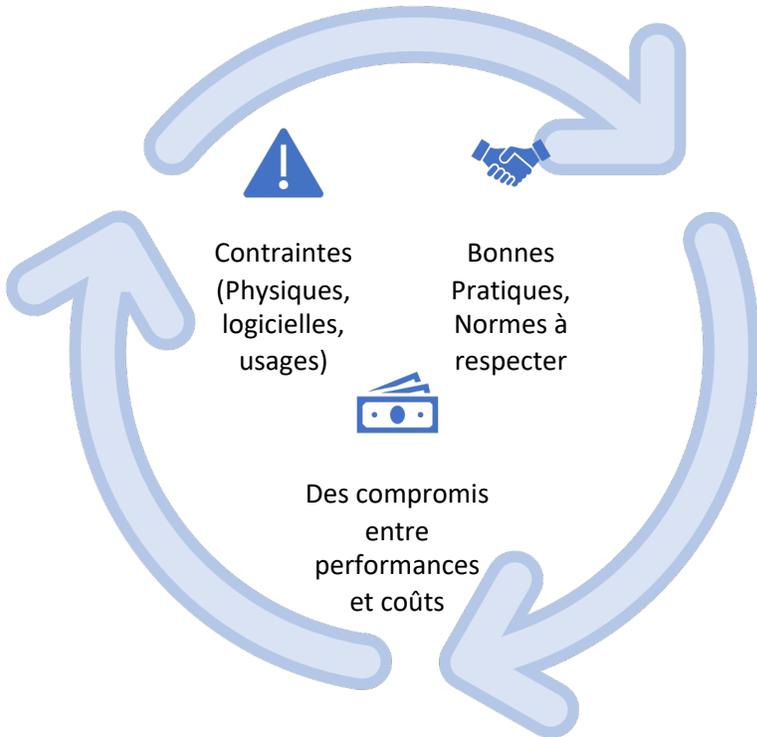
Exigences



Interactions  
systématiques



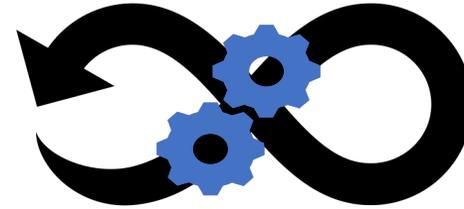
Dev+Ops



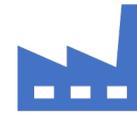
# Développement continu de grands systèmes : Très grande variabilité et vérification de cohérence



Exigences



Interactions  
systématiques



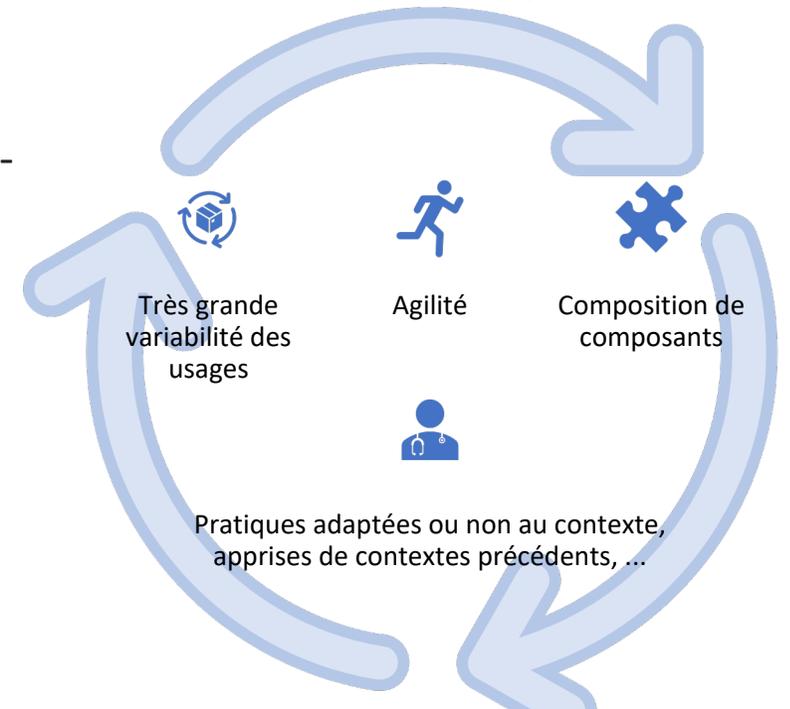
Dev+Ops



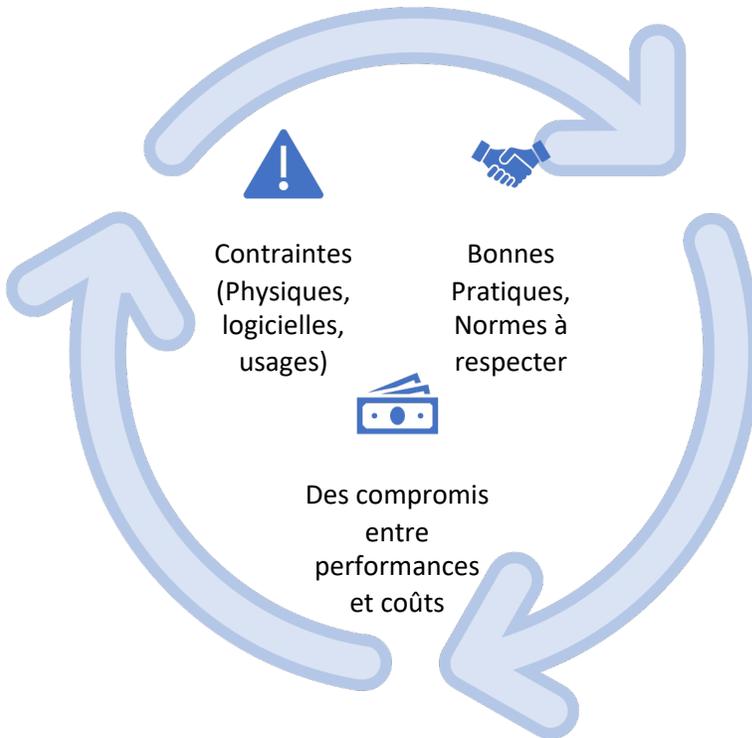
Variability-Intensive Applications over Highly-Configurable Platforms: Early Feasibility and Optimality Analysis (Sami Lazreg 20, Société VISTEON)



Understanding Large Object-Oriented Variability-Rich Systems by Automatic Detection of Implemented Variation Points (Johann Mortara 2019-2022)



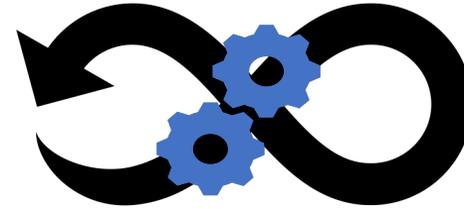
Philippe Collet  
Professor, (Université Côte d'Azur), group leader



# Développement continu de grands systèmes : Justifier des « bonnes » pratiques



Exigences



Interactions  
systématiques

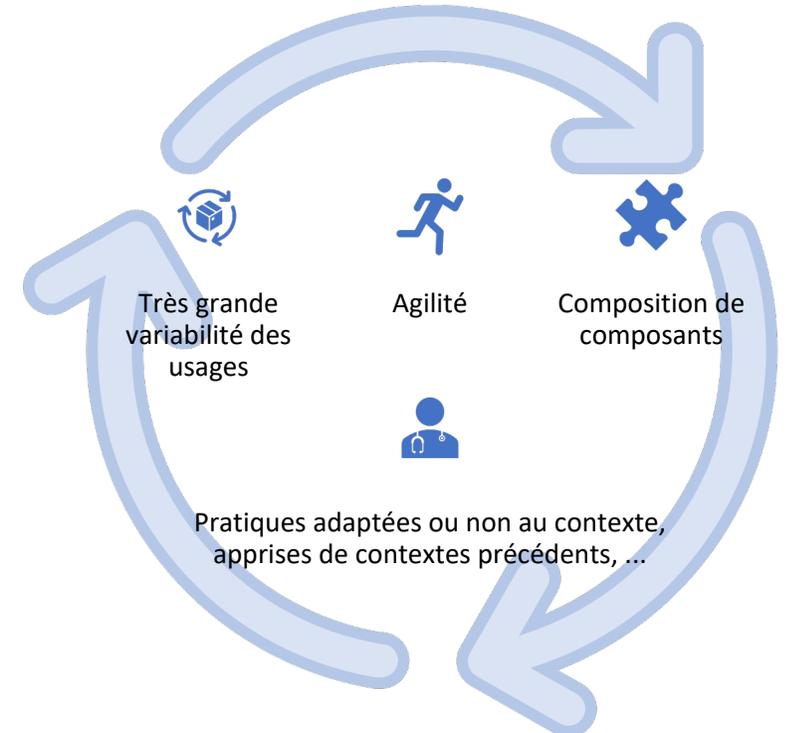


Support of Justification Elicitation:  
(Clément Duffau 19, société AXONIC)

Justifications within the integration process  
(été 20, avec Sébastien Mosser)



Dev+Ops



Contraintes  
(Physiques,  
logicielles,  
usages)

Bonnes  
Pratiques,  
Normes à  
respecter

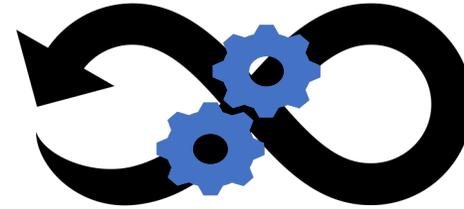
Des compromis  
entre  
performances  
et coûts



# Développement continu de grands systèmes : Mastering ML practices



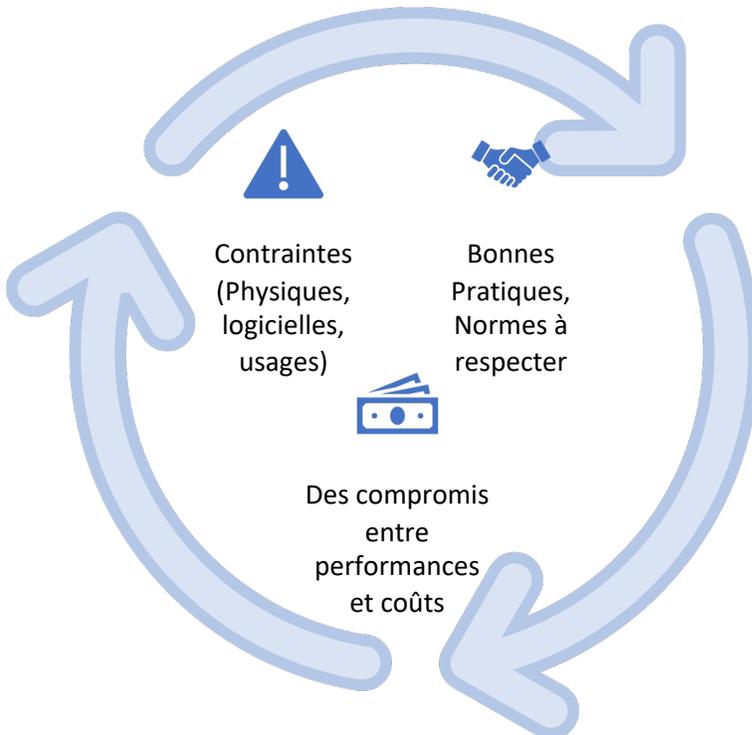
Exigences



Interactions  
systématiques

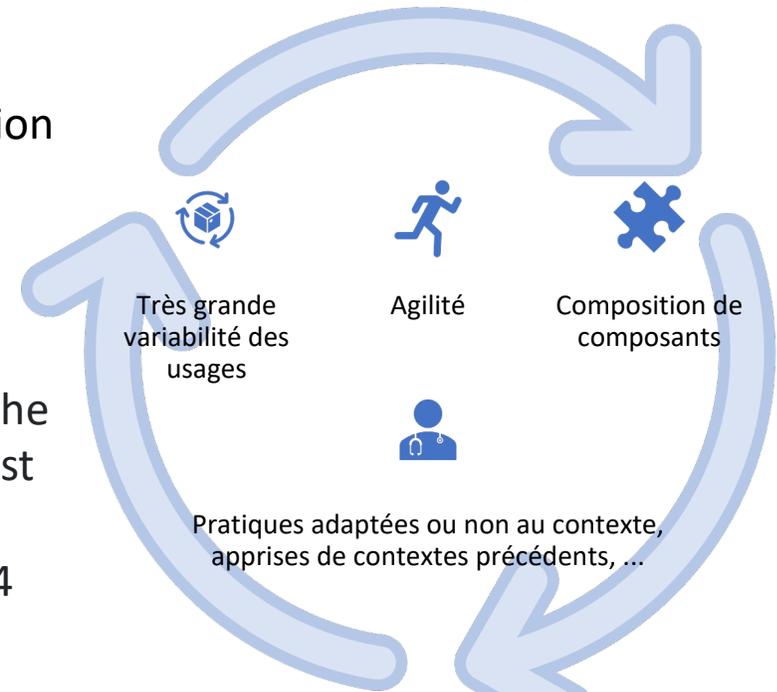


Dev+Ops



ML Workflows portfolio: problem identification through SPL and meta-learning approaches (ROCKFLOWS 2016 -> ...)(<http://rockflows.i3s.unice.fr/>)

Anomaly detection in time series: what are the requirements that drive the choice of the best workflow? How to learn from apparent contradictions?(Yassine El AMRAOUI, 21-> 24 société EZAKO)



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Frédéric Precioso  
Professeur des Universités (Full Professor)