3rd conference of the EURO Working Group on the Practice of Operations Research Challenges in the deployment of OR projects



Change Management issues in Practical OR projects

Discussion group 1

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Quantitative / Technical / Scientific

- Model
- Requirements
- Objective function
- Constraints

Qualitative / Relational / Organisational

- Who is the reference person?
- · What are the real objectives?
- Where is the data?
- What are reasons for resistance?
- How will the OR model be used?
- · What is the key success factor?

What does it take to make a real OR project work?

Who am I referring to? What do they want?

Organisations are complex ... and everyone has her/his objectives

Project sponsor

• IT department

GDPR officer

• Final user



Budget owner

Process owner

End beneficiaries

R&D / Analytics officer





Data availability



The holy Grail of any OR project

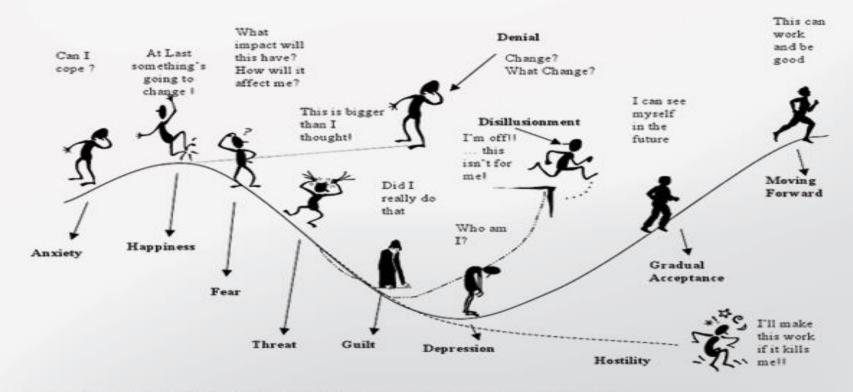


• Data are everywhere, but how to guarantee that my OR model will be fed consistently with the correct, most recent data in time?

Change management



Because human nature counts...

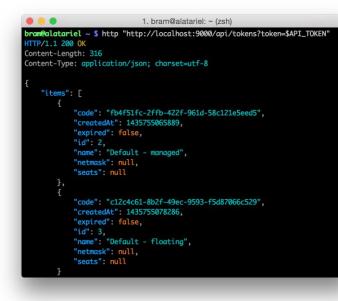


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User experience



The key to full integration into everyday's business processes



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Contributions

- We had a very active and positive contribution by Rajeev from GE India and Simone from Dutch Railways
 - «our counterparts are most often not OR experts: struggling to reach 95% optimality is less important than getting to the ground fast, with a simple model, and build on from that; nowadays users don't want to wait for 6 months»
 - «feedback is key to build something that will work in a real operational setting»
 - «beware of not capturing the key constraints and behaviours from the beginning: if the user feels the model is too distant, they may just loose faith in it and abandon it»
 - «quality and quantity of data is key to OR models success... very often this requires lots of user input and difficulty may arise when users understand THEY need to provide this data in order for the models to work properly»
 - «there is a common fear of users, that the OR tool will REPLACE their job most often it will improve it. The key is to make clear WHAT'S IN IT FOR THE USER»
 - «user experience is key... but very often the requirement is to keep the possibility to manage data and solutions from Excel – every analys't favourite tool»

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Thank You

Susanne Heipcke & Matteo Pozzi