User engagement in Climate Services Lessons learnt

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Earth System services group

http://ess.bsc.es/

Renewable energy

Agriculture

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Water management

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S2S4E
Climate Services for Clean Energy

MED-GOLD

VISCA
VINEYARDS INTEGRATED SMART CLIMATE APPLICATION

Climate Change Service

APPLICATE.eu
Advanced prediction in polar regions and beyond

EUCP
European Climate Prediction system

imprex

PRIMAVERA

JRC
EUROPEAN COMMISSION

RESILIENCE
PROTOTYPE

HIATUS

EUPORIAS

SPECS

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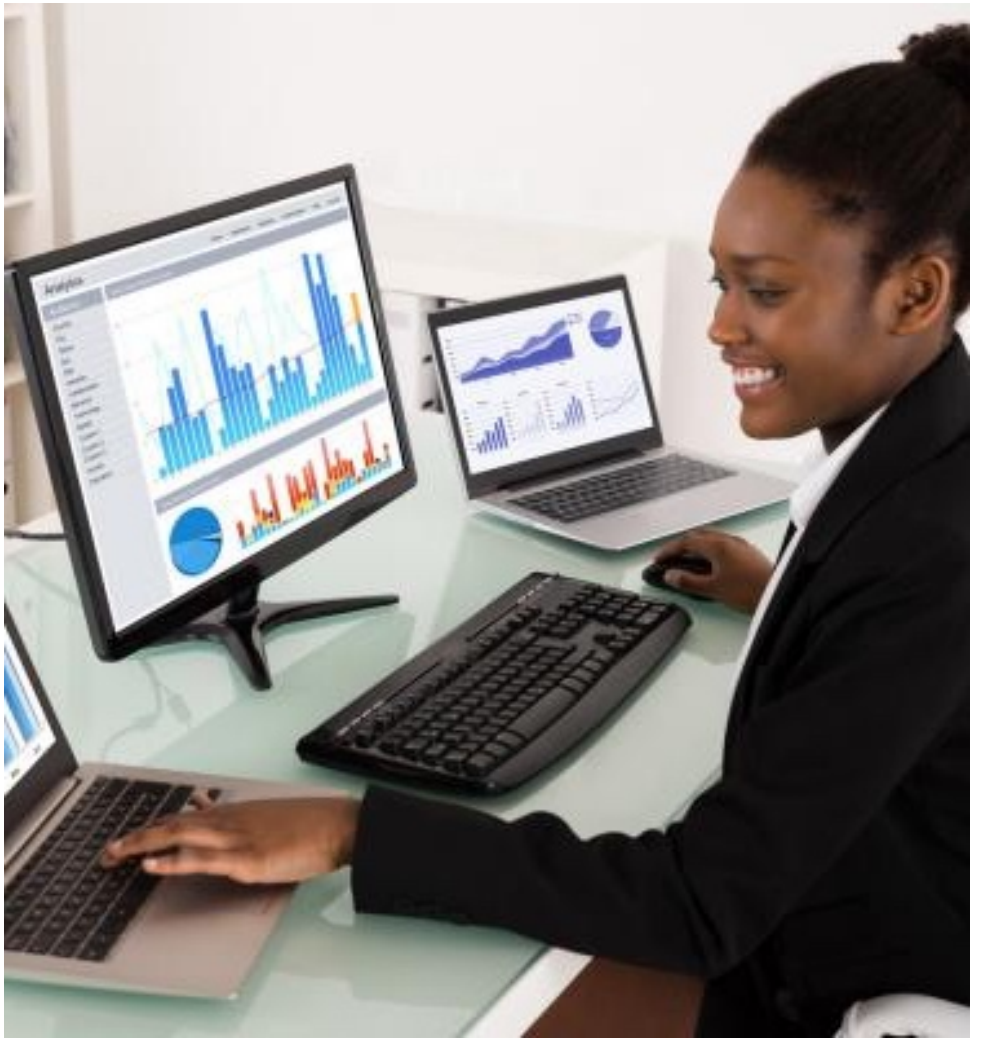
Lesson learnt 1

Spend time understanding the “user”

Typologies of organisations

User ≠ Decision maker

Typologies of Decision makers



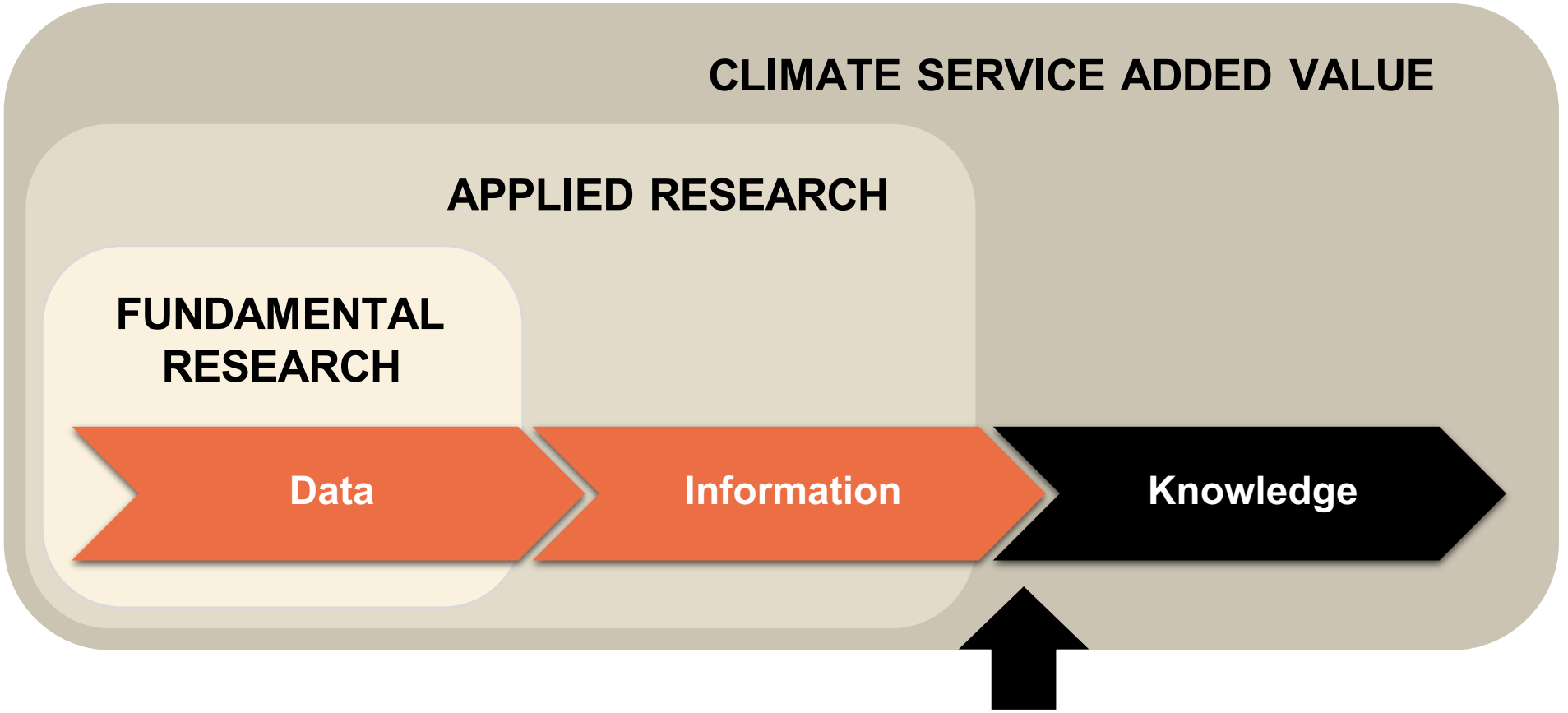
Understand motivations

- Planning budget
- Reduced losses/costs
- Increased revenues

Lesson learnt 2

TRUST is crucial

Classical understanding of user engagement:



- NOT unidirectional
- NOT a linear process
- Psicology is underestimated

Lesson learnt 3

Language matters

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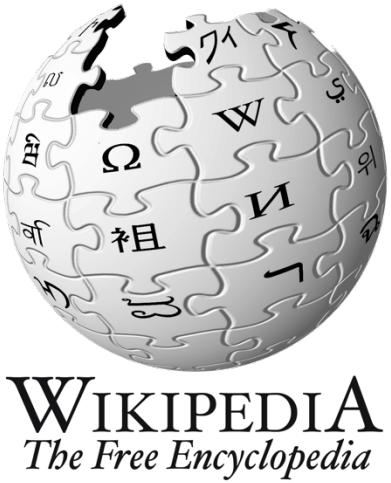
Uncertainty

means lack of precision or that **the exact value for a given time is not predictable, but it does not usually imply lack of knowledge**. Often, the future state of a process may not be predictable, such as a roll with dice, but the probability of finding it in a certain state may be well known (the probability of rolling a six is 1/6, and flipping tails with a coin is 1/2). In climate science, the dice may be loaded, and we may refer to uncertainties even with perfect knowledge of the odds. Uncertainties can be modelled statistically in terms of pdfs, extreme value theory and stochastic time series models.



Uncertainty

Uncertainty is a situation which involves **imperfect or unknown information**. It applies to predictions of future events, to physical measurements that are already made, or to the unknown. Uncertainty arises in partially observable and/or stochastic environments, as well as due to ignorance, indolence, or both.

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Reliable

is a charactheristic of a forecast system for which **the probabilities issued for a specific event vary a proportion of times equal to the climatological frequency of the event**. A reliable system which predicts, for example 50% (or 20%, or 73%) probability of rain, should, on averge, be correct 50% (or 20%, or 73%) of the times, no more, no less.

Cambridge Dictionary

USERS

reliable

adjective · UK /rɪˈlaɪ.ə.bᵊl/ US /rɪˈlaɪ.ə.bᵊl/

B1 **Someone or something that is reliable can be trusted or believed because he, she, or it works or behaves well in the way you expect:**

Is your watch reliable?

reliable information

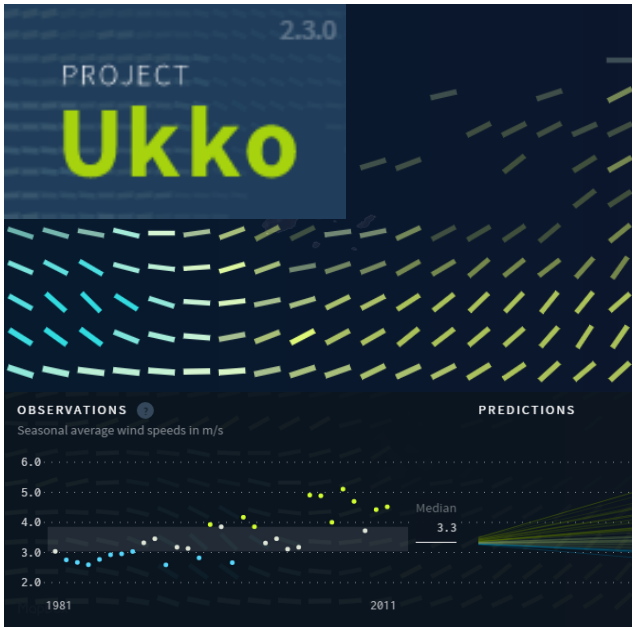
Gideon is very reliable - if he says he'll do something, he'll do it.

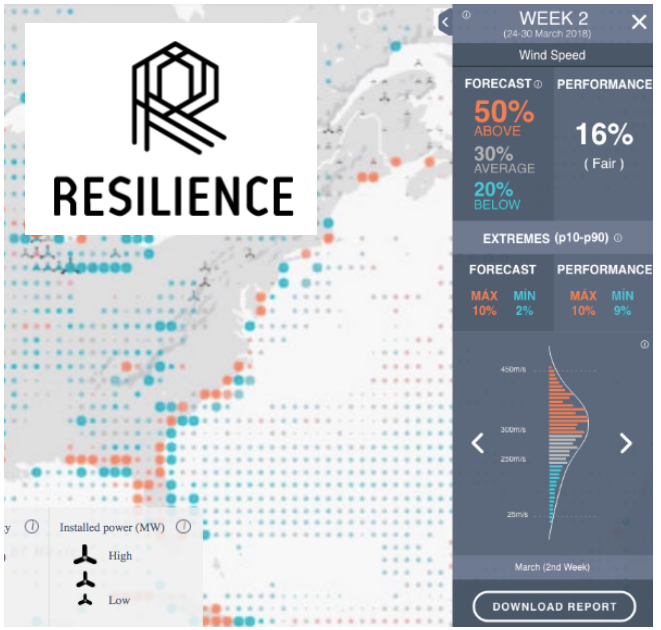
Lesson learnt 4

Transdisciplinarity is not just a buzzword

Don’t reinvent the wheel

@iskiam @moritz_stefaner @FuturEverything @thefercook





http://www.seasonalhurricanepredictions.org

http://www.project-ukko.net

https://ahv718.axshare.com

Thanks!

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