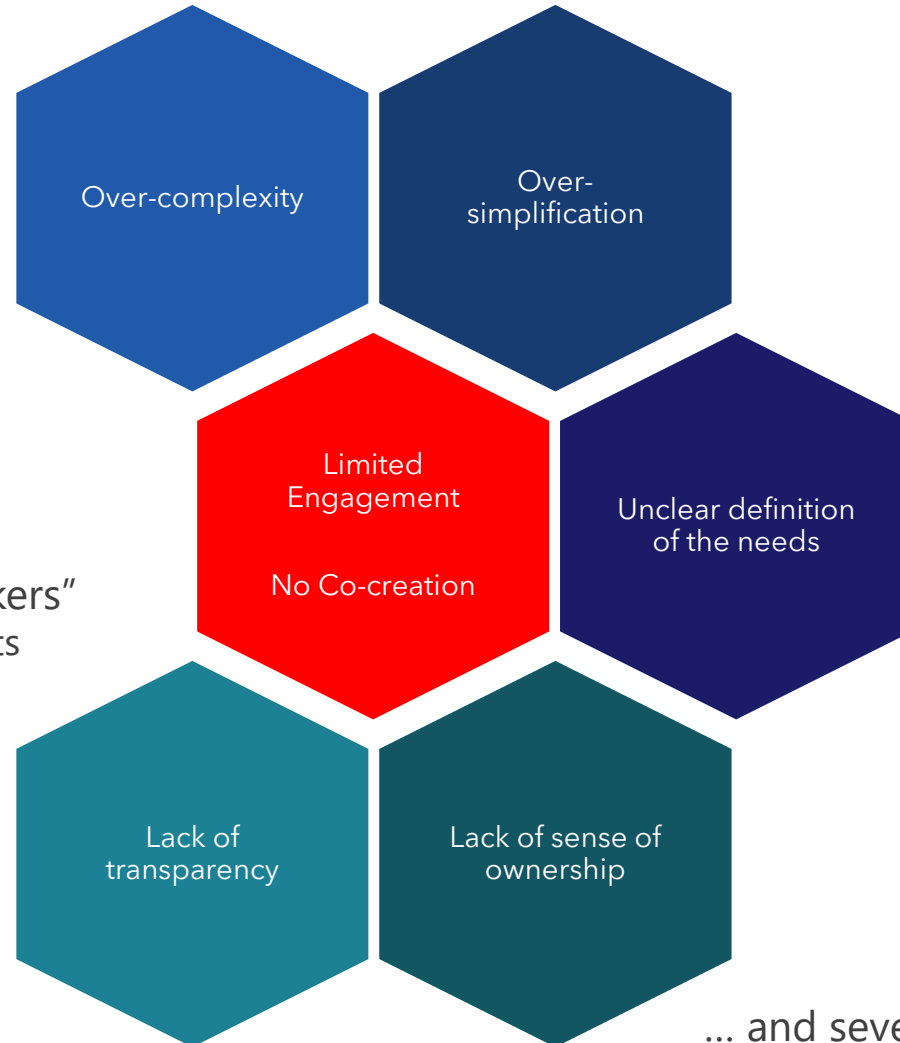


VO: reduce the distance between modellers and DM



Goal: to share my experience with VO

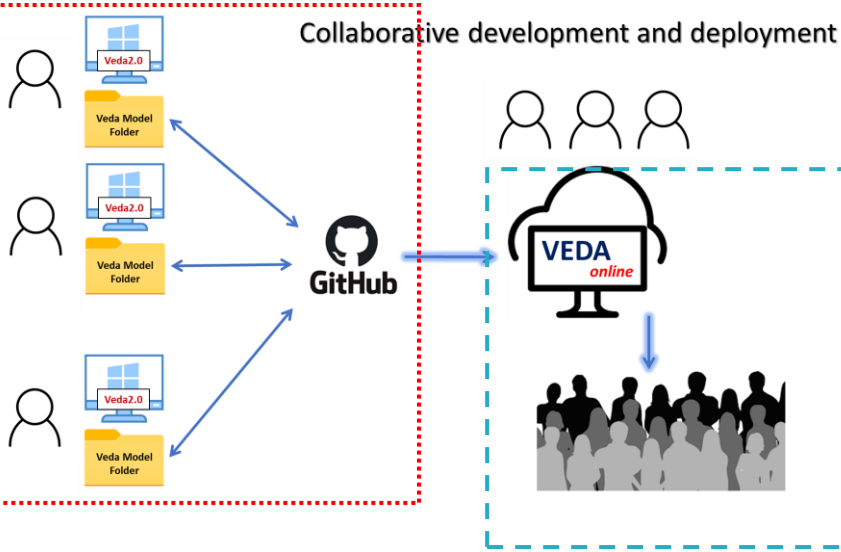
Issue: distance between
"modellers and stakeholders/decision-makers"
(output of model-based analyses and experts
judgments)

**Good practices and tools to
"reduce the gap"**

... and several others...

VO: the work process – Making modifications collaboratively

Collaborative development and deployment



1. Making modifications collaboratively

2. Running the model (multiple explorations).

3. Reports and collaborative analysis

A much larger number of experts (non-modellers) can be engaged to track the changes and the development of the model:

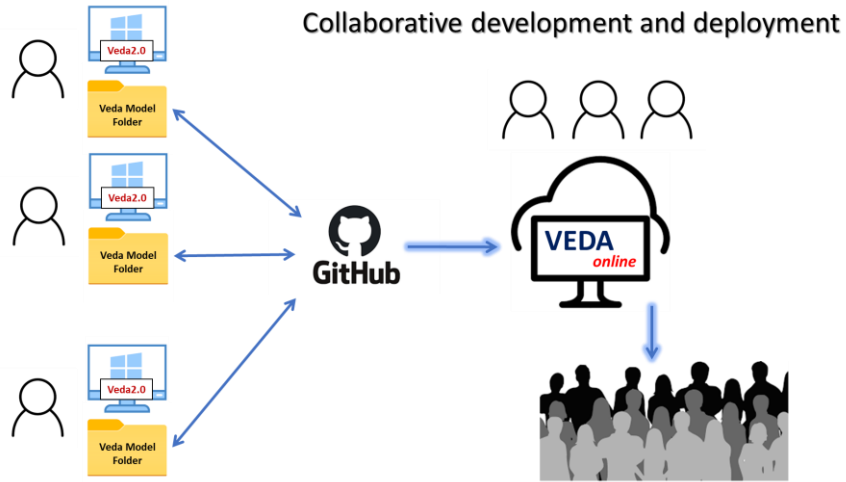
- All collaborators see the same things
- Transparency
- Sense of ownership / Co-analysis
- Better interpretation of the outputs

Model Github repository commits

Commit Title	Status	Commit Hash	Date
2030 EFF fix	Latest	b8ebfd7	14 Nov 2023 07:43 AM
No kerosene for residential SH	Last Synced / Pulled	0d922c3	11 Nov 2023 11:15 AM
Updates - EE and ELE import New EE costs for Kosovo and M...	Pulled	0e3a6a3	11 Nov 2023 10:57 AM
update - non road exogenous projections	Pulled	c63e4ab	07 Nov 2023 18:28 PM
new Tech for VO - update in TRA Adding biomass heating sy...	Pulled	cf13cbe	07 Nov 2023 17:55 PM
END (for bio boiler) + new T	Pulled	0f09e12	30 Oct 2023 14:45 PM

07-11-2023 17:55:36 PM +01:00

V0: the work process – Running the model



No (standard/unique) interpretation/representation of the real-world phenomena.
Eg the problem of the “reference” case.

It easily allows to organise and launch “large strategic/sensitivity” exercises (scenarios run in the cloud - in parallel).

“Time to solution” is a “key” factor when scenario analyses are designed. It triggers/decreases the willingness to explore!
(3 hours → 20 cases vs 3 h. → 3 cases)

1. Making modifications collaboratively
- 2. Running the model (multiple explorations).**
3. Reports and collaborative analysis

Combinatorial method to explore scenarios (by permutating and combining influencing factors)

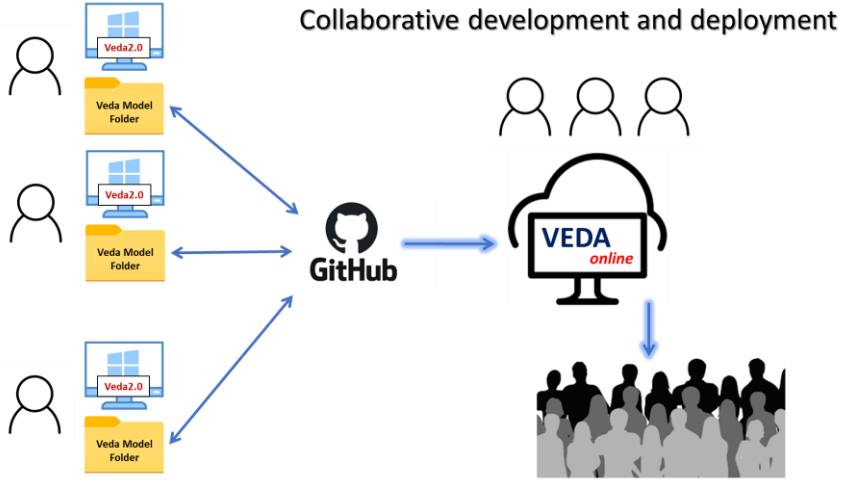
Factors/Scenario	Scen1	Scen2	...	Scen “n”
GHG targets (H/M/L)	L	M	M	H
Import (H,M,L)	M	M	M	
Measures in households (1,2,3)	1	1		3
Measures in industry (1,2,3)	1		1	3
Measures in transportation (1,2,3)		1	1	3
H2-related policies (1,2,3)	1	1	1	3
Others (H,M,L)	L	L	L	M

Illustrative example

Multiple explorations (parametric analysis):
“learning by **exploring** / learning by **comparing**”

V0: the work process – Reports and collaborative analysis

Collaborative development and deployment



1. Making modifications collaboratively
2. Running the model (multiple explorations)
- 3. Reports and collaborative analysis**

“Flexible” platform for co-analysis
(very powerful visualization features)

No need to share results repository (“static” – prepared by modellers), or pass through BI tools

Most effective way to present/discuss the model dataset/structure

Users (and modellers) can explore the scenario outputs in a very flexible manner (multiple dimensions)

Users (and modellers) can access existing “views” (created by other collaborators)

Users (and modellers) can create/**save/download** additional “views” (tables) and take screenshots (charts)

Users (and modellers) can identify the room for changes/improvements and build collective knowledge.

