





This project has received funding from the European Union's Horizon 2020 research and innovation programme under grant agreement No 818496. This document reflects only the author's view and the Commission is not responsible for any use that may be made of the information it contains.



# 1. SDM Objective and Method

#### **OBJECTIVE OF THE SDM:**

System Dynamics Modelling (SDM) helps us



1) understanding what is happening in rural areas interrelations between ENVIRONMENT, SOCIETY, ECONOMY dynamic relations: effect and cause have continuous interaction



2) envisioning possible scenarios to reach goals

"Applying systems thinking principles and tools enables you to achieve better results with fewer resources in more lasting ways"

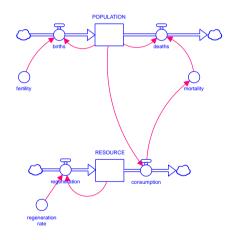
Systems Thinking For Social Change

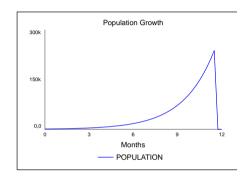


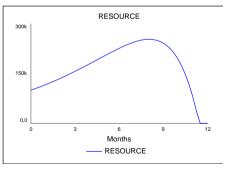
#### 1. SDM Objective and Method

TRENDS → BEHAVIOUR

RELATIONS → STRUCTURE

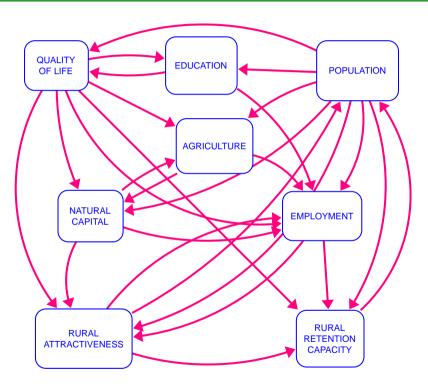


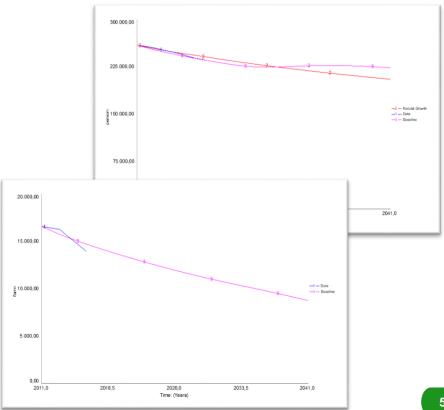






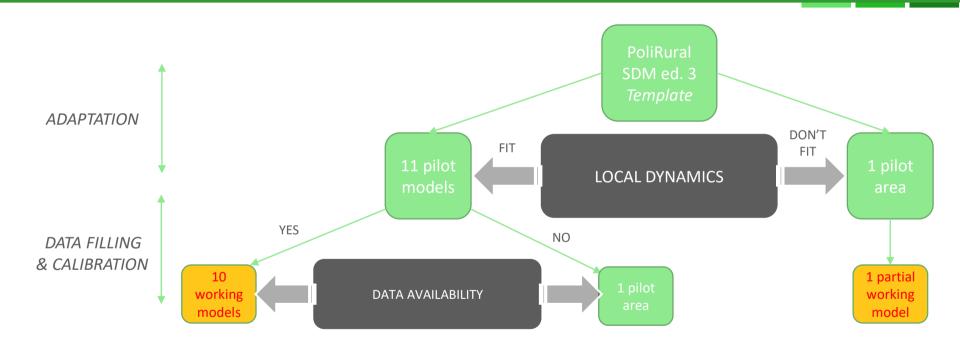
# 1. SDM Objective and Method





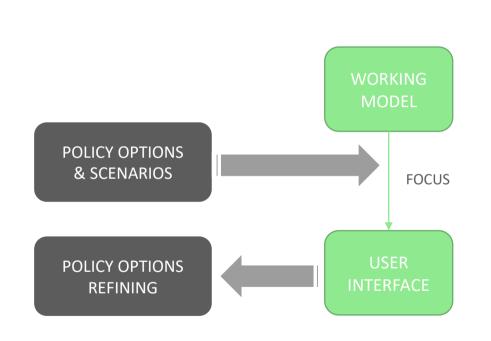


## 2. From the template model to local SDM





# 3. Building Scenarios: Policy Options Explorer

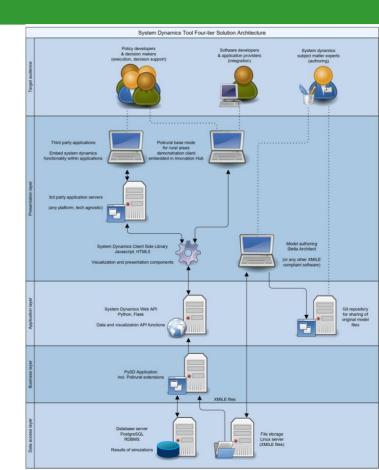






# 3. Building Scenarios: Policy Options Explorer

- Build model in standards compliant modelling software
- Export to SD interchange forma
- Convert interchange format to executable code
- Build a web application that can execute the model and visualize results

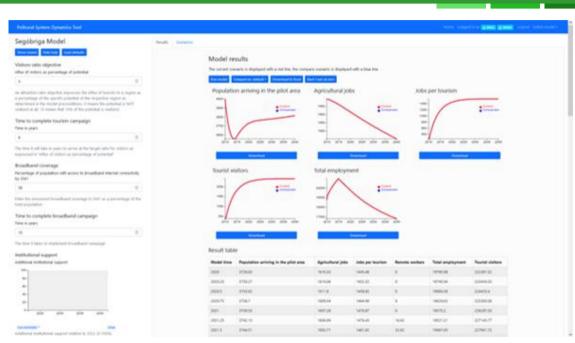




#### 2. Building Scenarios: Policy Options Explorer

#### **CAVEATS**

- This is an experiment to raise issues and conversations with the different stakeholders
- Model has much room for improvement
- It will never have predictive power











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