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A Nonprofit Organization

# **Neural Networks for Design Thinking:** An Recognition Service for Modelling Objects

# Use of Neural Networks with Scene2Model: A Case for Design Thinking

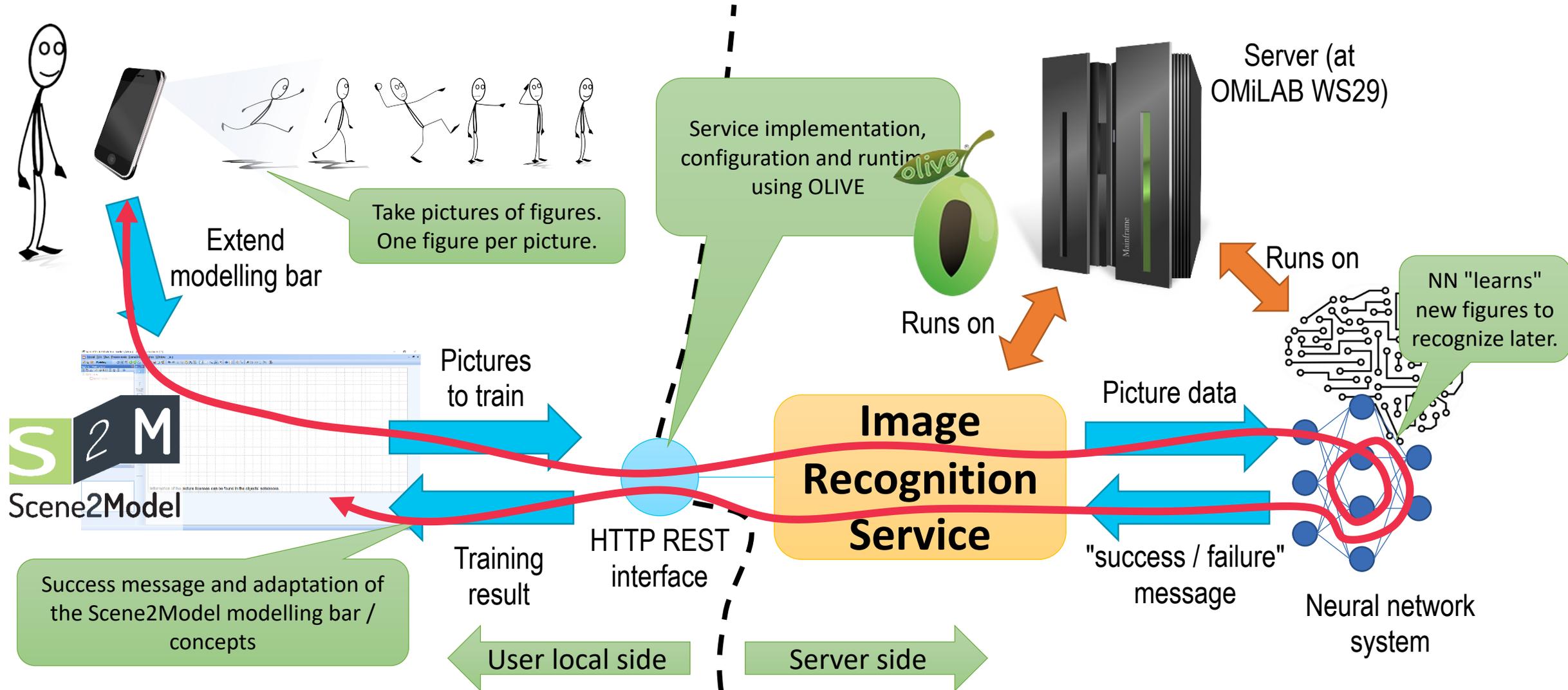
- **Training Phase**

- Add concepts for figures that can be relevant for the recognition phase to the Scene2Model modelling bar.
- Train image recognition service to recognize the images in a scene that is created during the recognition phase.

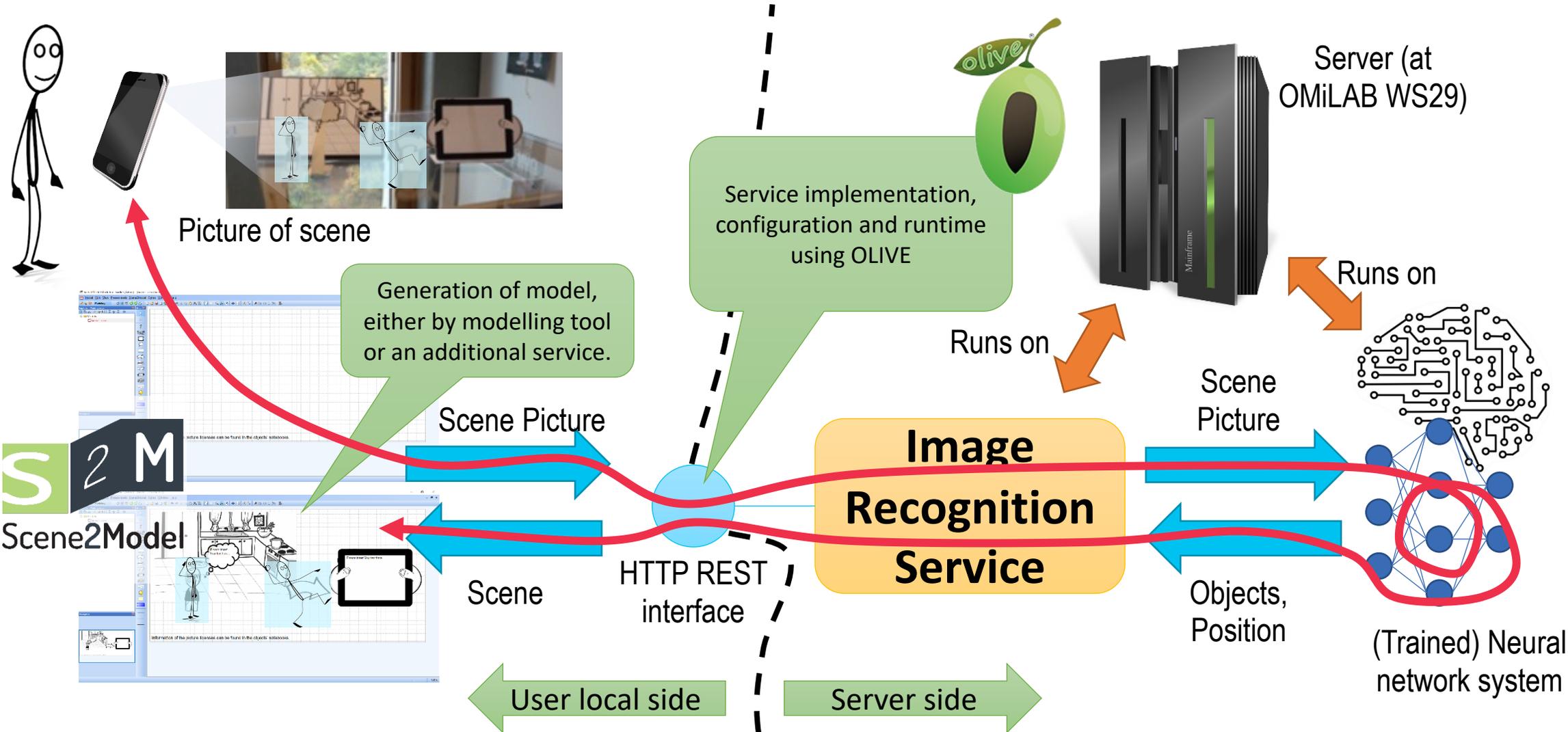
- **Recognition Phase:**

- Create a physical scene with the available figures.
- Digitalize physical scene into Scene2Model tool using image recognition service.

# TRAINING PHASE: ARCHITECTURE



# RECOGNITION PHASE: ARCHITECTURE



# COMING SOON...

- Further features:
  - Dynamically set the attributes available in the notebook of the concepts in Scene2Model (training and recognition phase).
  - Identify figures in the scene that have not yet been trained or could not be properly identified with the training and provide recommendations to extend Scene2Model modelling bar (during recognition).
- If you are interested to contribute, please get in touch with us at [info@omilab.org](mailto:info@omilab.org).