

Kilobots modeling with Blockly4SoS

Objectives

1. Create n groups (1-3 people per group)
2. Consider the requirements written in the previous lecture
3. Model the system in Blockly4SoS
 - Include the requirements in Blockly4SoS
 - Design the system
 - Build sequence diagrams

Actions (2H time-90 min)



Sprint 1 (25 min):

All groups: try your best 😊 Focus on Architecture and Communication

Collective review (20 min):

create a shared baseline

Sprint 2 (30 min)

Groups 1-2: sequence diagram

Groups 2-3: dynam., evol., emerg., time, ..., label all requirements, introduce constraints, ...

Collective review (15 min)

Create a shared baseline

Identify missing items (to be completed offline)

Start from the requirements

- Include the requirements in Blockly and SOLVE requirements one by one (or by small groups), creating the corresponding architecture components.

If you have doubts, use as reference the example on «smart grids with simulation» in Blockly4SoS

- It includes examples on sequence diagrams

Remember for sequence diagrams:

- You may need to consider kilobots as CSs that are providing/invoking services: first create RUMI or RUPI, then under «services» create the link to the RUMI/RUPI