

# Team based learning 3

# What happens when two agents interact?

Regard the following example: In the simulation of the informal settlements, new houses align with other existing houses.

- a) Information exchange occurs between house owners who have already settled and new settlers to ensure the new settlers know that their houses should align with existing buildings.
- b) The state of the agent changes from extension (find a random place to settle) to infilling (align with existing houses).
- c) The behaviour of an agent changes during the simulation to ensure that it can sense the direction of existing buildings.
- d) None of the above
- e) All of the above

# Agent - Agent interactions

When ants find food, they return home leaving pheromones in an environment where other agents can find this food. This is an example of:

- a) Direct and one-directional interaction
- b) Direct interaction in both directions
- c) Indirect interactions in one direction
- d) Indirect interaction in both directions

# Interactions with environments

Which of the following statements is/are true?

- a) Interactions between agents and environments can only happen when the environment is dynamic False, agent able to interact static
- b) Interactions always lead to behaviour change in the agent False
- c) Interactions can lead to a change in the environment True
- d) For environment-environment interactions, both environments need to be dynamic mostly both are dynamic