



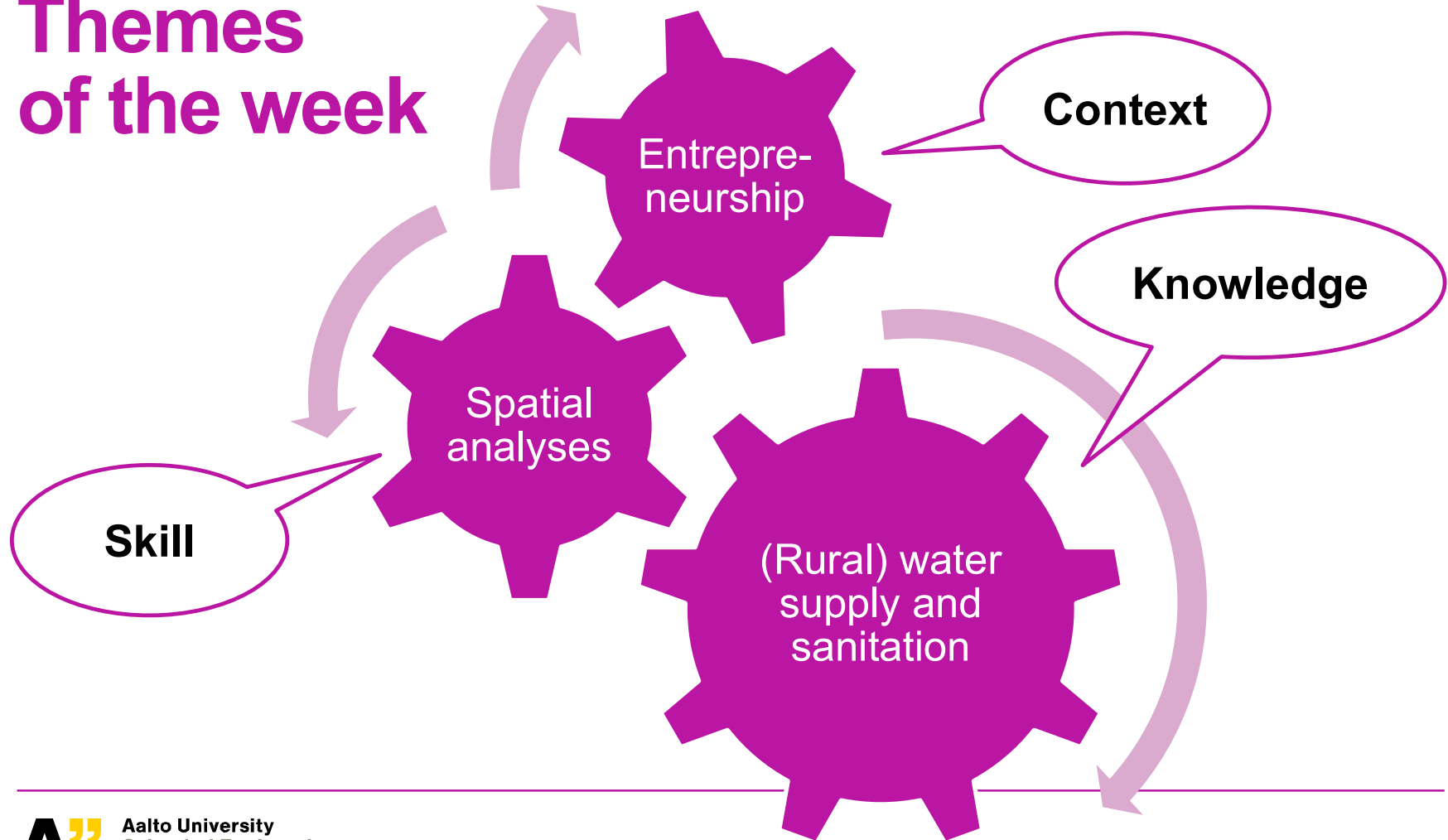
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School of Engineering

Orientation for the week:

”Water supply and sanitation”

Prof. Anna Mikola

Themes of the week



Learning objectives of the week

After the completion of the week the student

- Can define the main aspects of **water** and environmental **services** and related **infrastructures** [knowledge]
- Is able to work interactively as part of the group and to communicate his/her own ideas [identity]
- Understands the basic concepts of storing and processing **spatial data** in GIS [knowledge]
- Is able to identify the broader societal context relevant to water and environmental engineering, including the key institutional, legal, and economic (**entrepreneurship**) aspects [knowledge]

Timetable

Monday

9:00 – 11:00 Introduction to the week
Urban water supply and sanitation
Water and wastewater treatment

12:00 – 14:00 Introduction to rural water supply and sanitation by Dr. Harri Mattila, HAMK (LUNCH)

14.00- 16.00 Entrepreneurship and intrapreneurship by Sonja Hilavuo

16.00 – 16:30 Hints for a customer interview

Tuesday :

9:00 – 12:00 GIS introduction by Teemu Kokkonen

13:00 – 16:30 Client interviews

Wednesday

- 9.00 - 12.00 GIS exercise
- 13.00- 16.00 Analysis of the interviews & creating the start-up ideas
- 16:00 – 17:00 Refining the start-up ideas

Thursday

- 9.00 - 12.00 GIS exercise (independent with support)
- 13:00 – 14:00 Introduction to compelling customer presentations
- 14:00 → Independent work in groups to prepare the pitch

Friday

- 9.00 – 11.00 Compelling communication clinics
- 13.00 – 16.00 Group presentations and wrap-up

Outputs and grading

- **GIS: Individual GIS exercise**
- **graded 1 – 5**

- **Entrepreneurship + water&sanitation: Group pitch**
- **Graded pass/fail – oral feedback during the pitching session**



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Questions? Comments?



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Individual work:

Draw a simplified lay-out plan of the centralised drinking water and wastewater system in separate A4 papers (bird perspective).
(7 min.)



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Group work:

Look at the the pictures of the layout plan within the group. Discuss about the similarities and the differences. Select one plan that your group is ready to present. (10 min.)



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One group will present the water supply system and another group will present the sanitation system.

(10 min.)



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BREAK 10 min.