Continuous Project
Kick-off
Workflow

[Diagram showing a flow from Scenario to Lecture, Practice, Draft, Home group work (2 people), Submissions, and finally to Specification.]
Goals

• Get hands-on experience on RE activities
• Learn how to depict the system context
• Learn how to model requirements so that they reflect stakeholders’ expectations
• Consider the system as a multifaceted object
• Be consistent
Overview

- Scenario can be found at [here](#)
- Gives up to 20 points
- Discuss together at class
- Submissions in groups of 2 people
Scenario

• **Read scenario**

• **Tasks:**
  – What is the purpose of the system?
  – What is the system context?
  – What are the system boundaries?
Scenario Description (1/3)

PowerAB is an industrial group that runs a filling station at its plant in Zürich, Germany. The filling station is used primarily for company vehicles, but employees and their family members can also use it (and do so quite often due to the low prices for fuel charged there).

The filling station is open only on workdays during regular working hours (9 AM - 18 PM). It is run by one filling station attendant. Along with fuelling, the attendant generally does minor service work only on company vehicles (e.g., oil changes). Normally a fuelling operation takes about six minutes (including the generation of the receipt). The fuelling operations naturally overlap because there are four pumps available to customers (1 for diesel, 2 for petrol, and 1 for biodiesel). The filling station has nevertheless experienced a lot of congestion in recent months. The peak days are Fridays and Mondays.

When a company vehicle is fuelled, the receipt records the license number, the cost centre (department to which vehicle belongs), the fuel type, quantity and date. If an employee fills his/her private vehicle, the receipt includes the license number and personnel ID number (along with the other data, e.g., fuel type, quantity, date and time). Family members of employees are entitled to pay cash when filling their vehicles. Two names are then recorded on the receipt - employee and family member.
Scenario Description (2/3)

At the end of his workday, the filling station attendant must give the company accounting department the daily cash, the current level of the fuel tanks and the receipts. These items are checked either immediately or the next day (with any differences clarified with the filling station attendant). After this is done, the accountants are settled, i.e., the fuel account is credited, and the purchasers are debited. The cost centres for the departments are charged for purchases involving company vehicles. For purchases involving employees, the personnel cost centre is charged, and the receipts are passed on to the personnel department. There the purchases are recorded as a deduction from the monthly salary account. Cash revenues are passed to the central cashier’s office in financial accounting.

The attendant is responsible for seeing to the refilling of the station’s fuel tanks. As soon as a minimum level is reached (with reserves for five workdays), he orders a tanker delivery from the fuel supplier. This account is settled directly with the company accounting department (debit against the fuel account and payment of the supplier).
Scenario Description (3/3)

IT applications are already up and running for Personnel (including payroll), Accounting (financial accounting, receivables, payables, and cost accounting).

PowerAB objective: to put an information system (i.e., software-intensive system) in place for substantially simplifying and streamlining administrative activities.
Context facets

- **Subject:**
  - ...

- **Usage:**
  - ...

- **IT system**
  - ...

- **Development**
  - ...
Hometask

Write 1 paragraph statement (max 6 (7) lines) on

what is the most important problem in the case description (in your opinion)?

- submit using the course site
- DDL: 12th September
Any questions