



T-CEN-500

Kick-off

An example...

- **EPR Flamanville**
- **Good project management?**
 - Costs?
 - Deadlines?
- **Causes?**



Les dérapages de l'EPR de Flamanville en graphiques : le coût multiplié par 5, la durée du chantier par 4 (lemonde.fr)

Building a house

{EPITECH}



Building a house

{EPITECH}

- **Before construction begins**
You expect to know

- What the house will look like
- How much it will cost
- What materials will it be built from
- When it will be finished

perimeter

cost

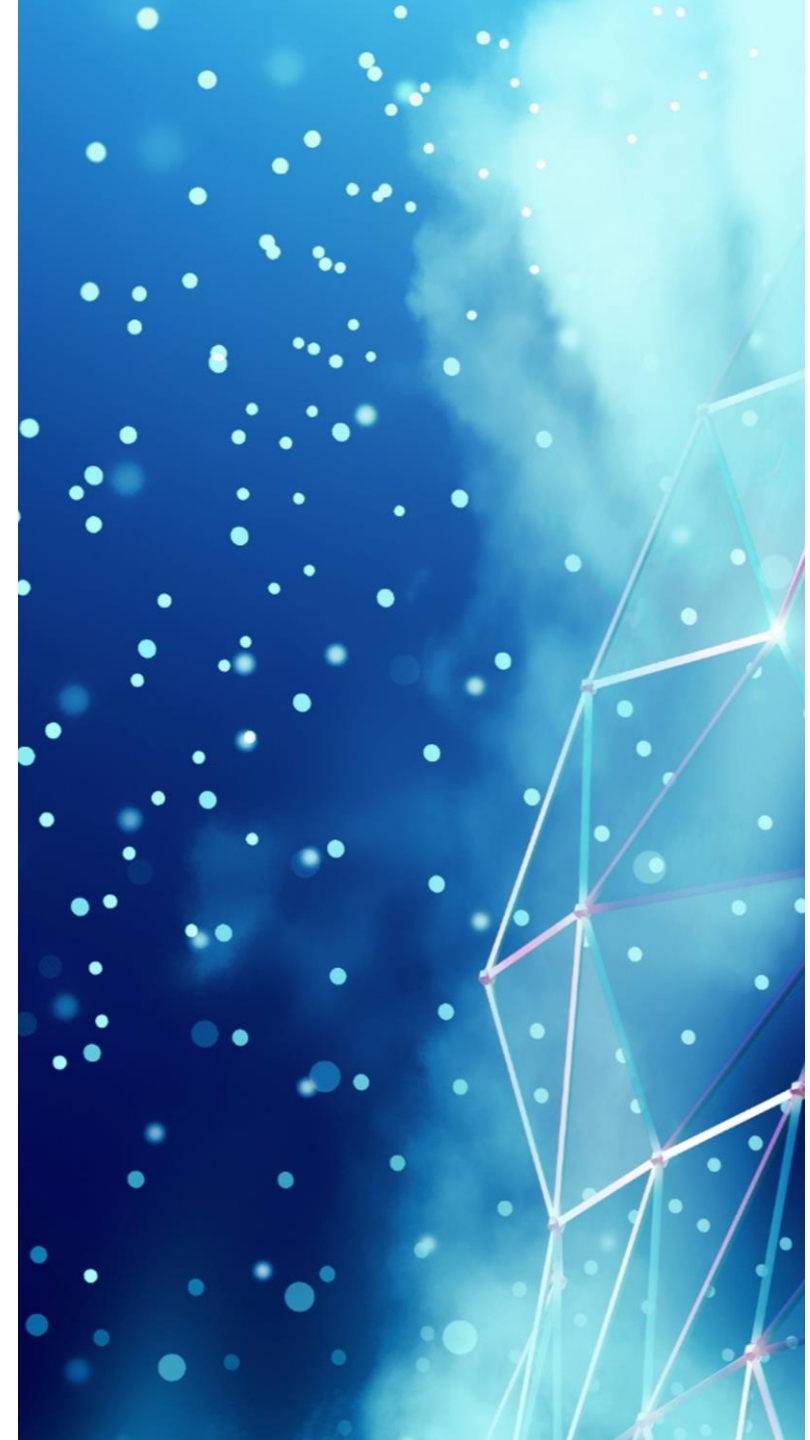
quality

delay

Building a house

{EPITECH}

- It is a commitment of the builder
- You don't want:
 - "it was cold in February, and we could not pour the concrete"
 - "we didn't have time to finish everything, so there is no toilet in the house, it will be available in V2"
 - "brick building is expensive, so we built it with straw"



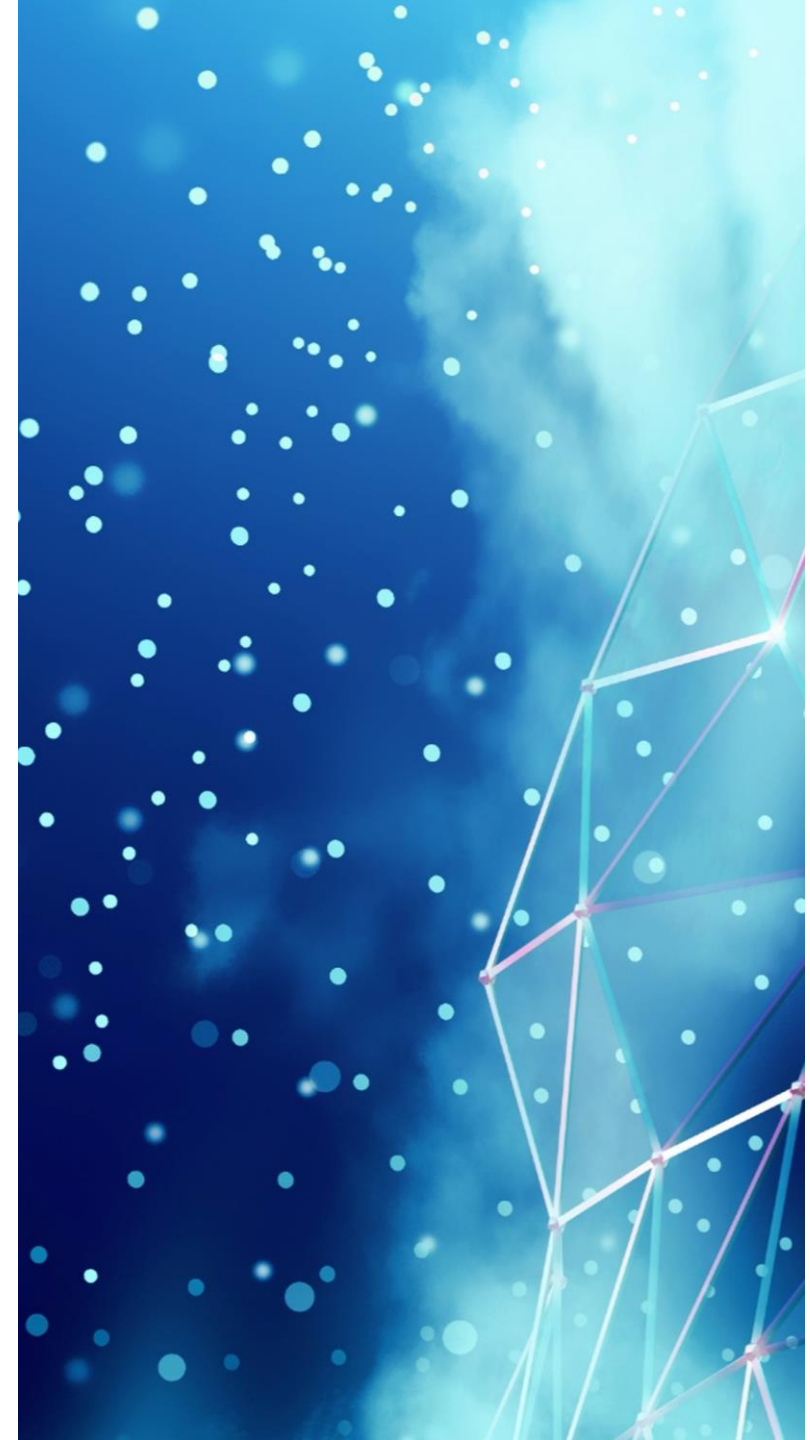
Building a house

{EPITECH}

- It is a commitment of the builder
- Based on this commitment you will sign or not

GO / No GO

- Must be planned before any construction begins





Cost, Quality, Scope, Time

{EPITECH}

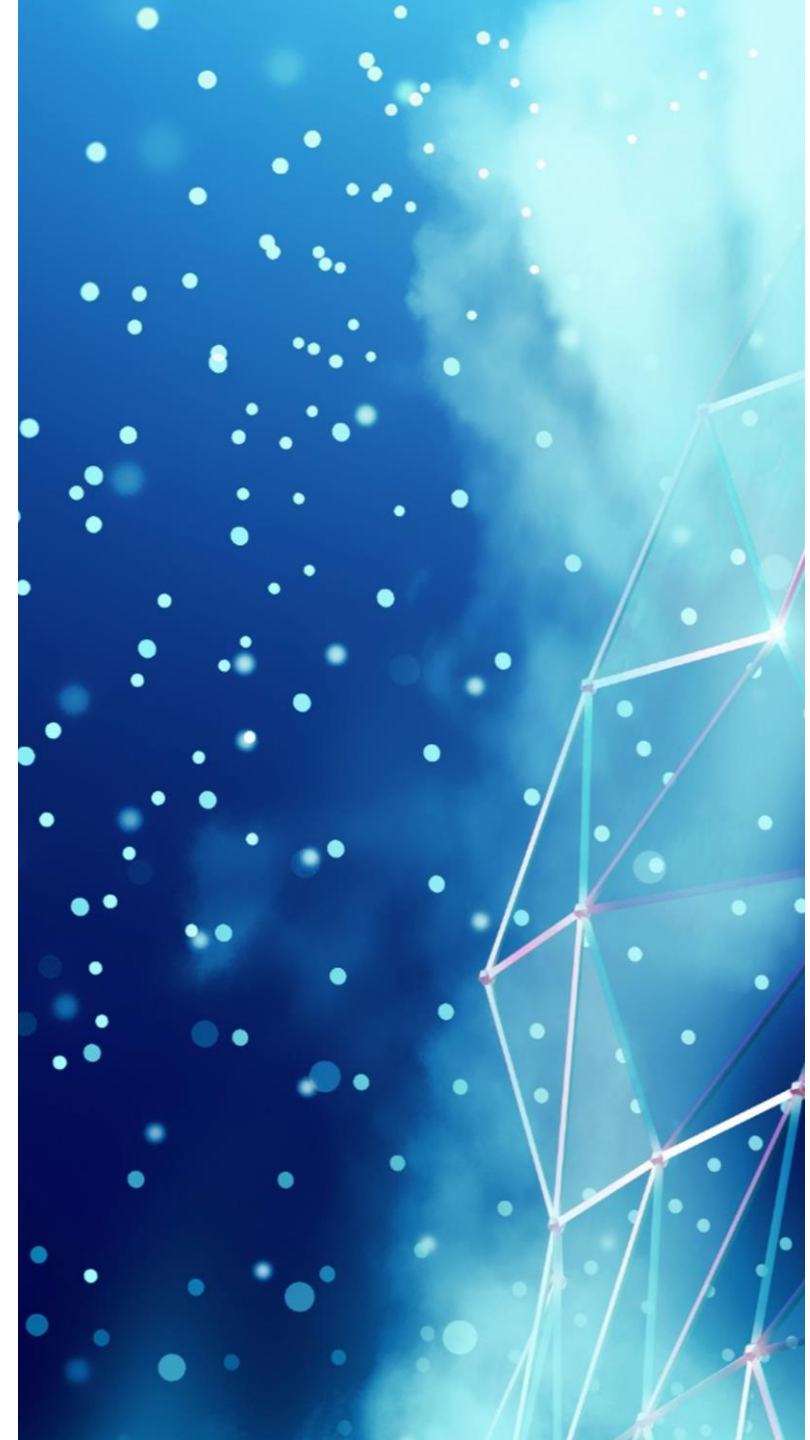
- **OTOBOS**
 - On Time, On Budget, On Scope
- **Not independent!**
 - Delay ↓ cost ↑
(Larger teams, overhead)
- **Highly determined by the market**
- **Yet allowing some variations**
 - Price of a Twingo / price of Rolls Royce
 - Quality is not the same
 - Scope is not the same
 - You cannot sell a Twingo at an RR price

T-CEN-500

{EPITECH}

- **Plan the project**

- Do you have all the required skills?
 - Hiring plan: Who? When?
- Schedule
 - Tasks dependencies
 - Delays
- Risks
 - Temperature in the house building example
 - Risk management
- Cost
 - Don't forget software development time!
 - Commitment
- Communication
 - Team and Board



Team

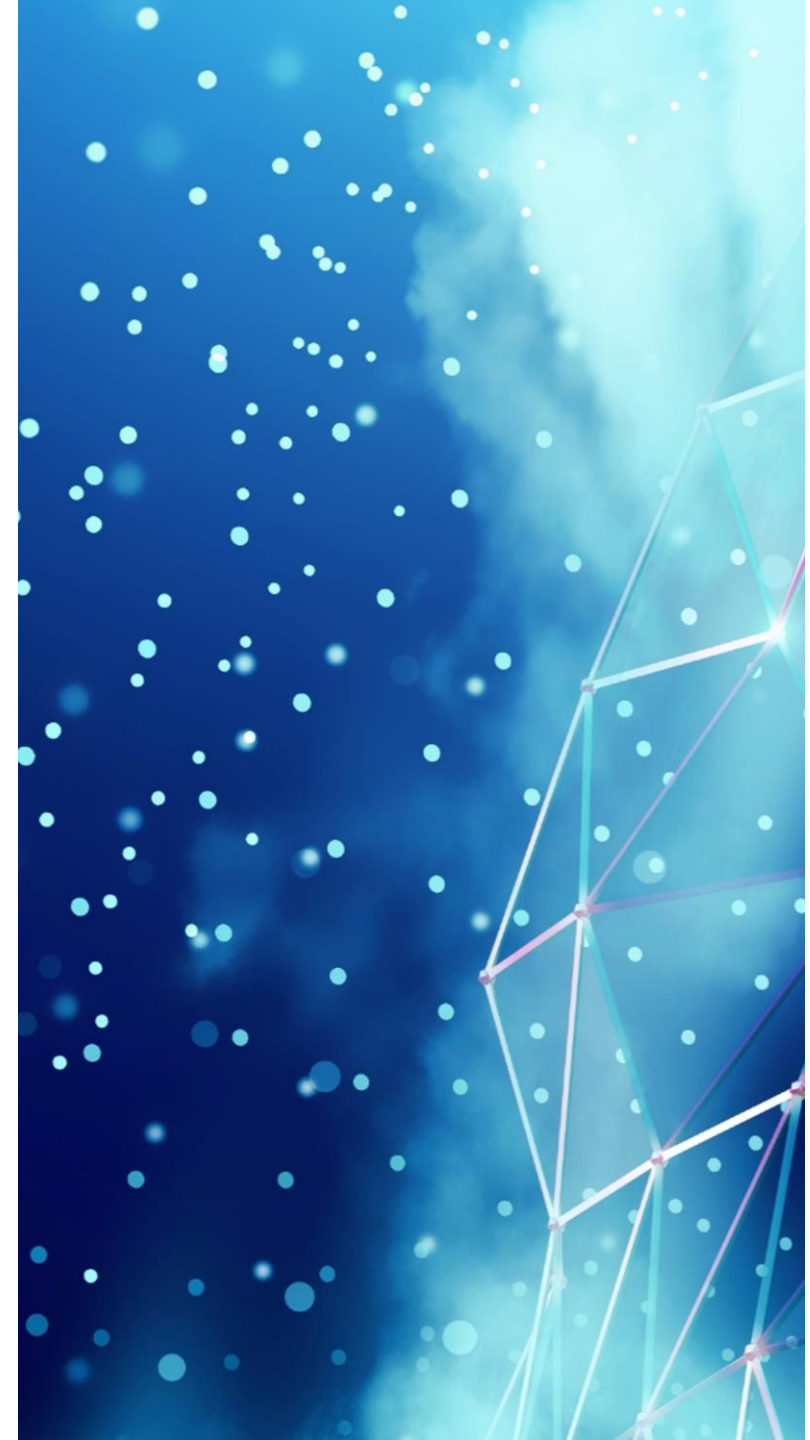
- **What skills do you need?**
- **Personas**
- **Hiring → Delay**

{EPITECH}



Schedule

- **When will delivery be available?**
- **Will your team be busy all the time?**
 - Painter waiting for electrician waiting for plumber...
 - Plumber must order the sink in advance...
- **PERT diagram**
 - Task dependencies
- **Gantt diagram**
 - Task dependencies + calendar view



Risks

{EPITECH}

- **Risk management**

- Risk identification
- Probability?
 - Actions to reduce probabilities
- Impact?
 - Actions to reduce impact

- **Project under control**

- Mandatory:
cost/delay/scope is a commitment



Cost

{EPITECH}

- **Cost includes**

- Man-day rate
- Subcontracting
- Supplies
- Etc.

- **Recurring / non-recurring expenses**

- Engineering expenses
- Tools / machines
- Materials



Communication

{EPITECH}

- **Project progress and success**
- **For your team**
 - Motivation
 - Knowledge sharing
- **External communication**
 - Stakeholders



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{EPITECH}

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 - Don't forget software development time!
 - Commitment
- Communication
 - Intern and extern

Not independent!

Example :
communication has
some cost and takes
some time

To go further

- **What if...?**
- **Bad scope definition?**
 - Special care for definition
 - Iterative definition (Agile)
- **You're late?**
 - (you shouldn't)
 - Additional delay ("V" cycle)
 - Reduced scope (Agile)
- **ESP MSc1-MSc2: you may experiment with that.**

Questions?