

# Distributed software development



11-10-09



MÄLARDALENS HÖGSKOLA

# ColdWatch

## Team & Project Vision

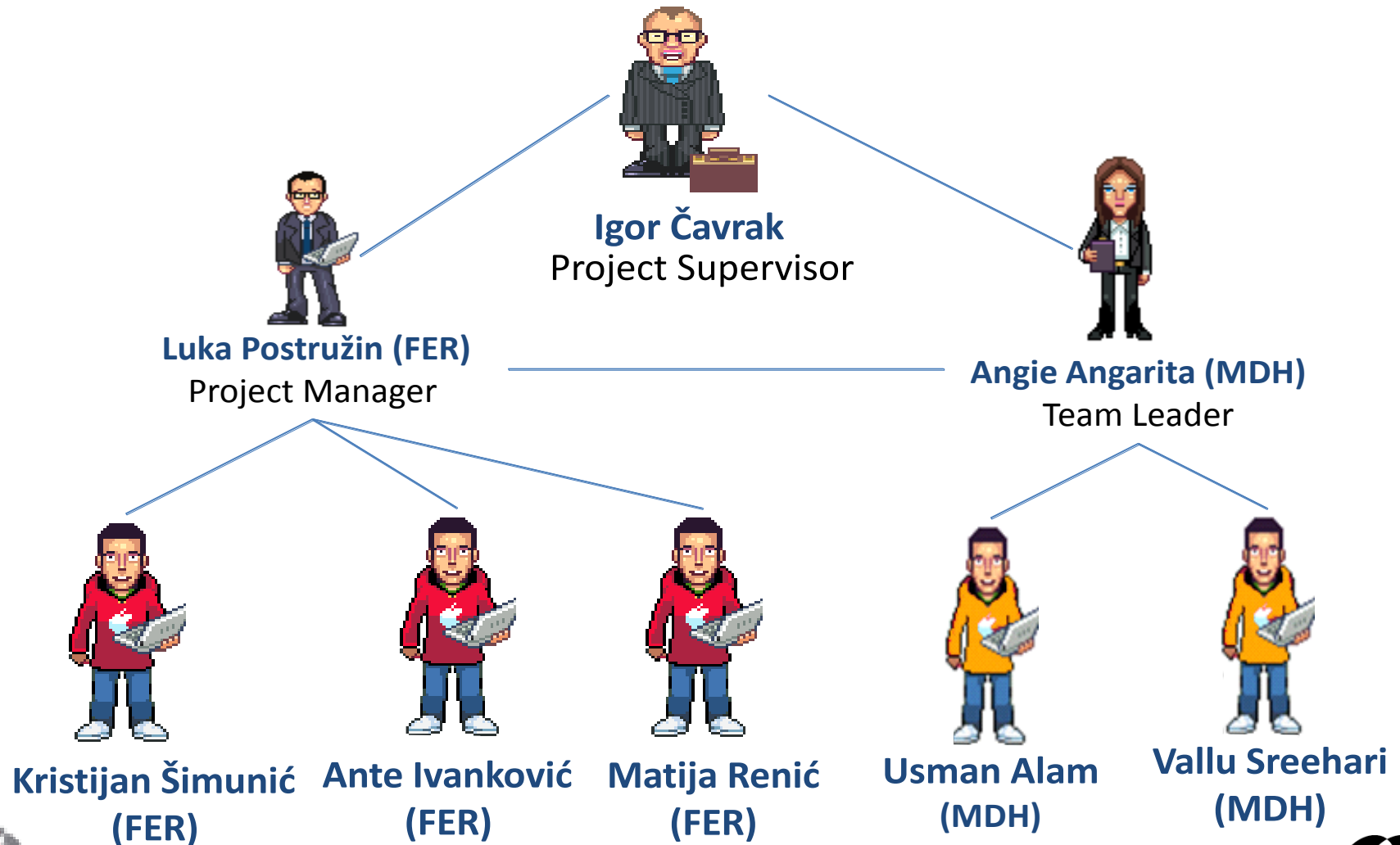
Angie Angarita

Luka Postružin

# Overview

- Team organization
- Roles and responsibilities
- Team communication
- “Freezing pipe problem”
- Solution
- Components
- Project vision
- Technologies

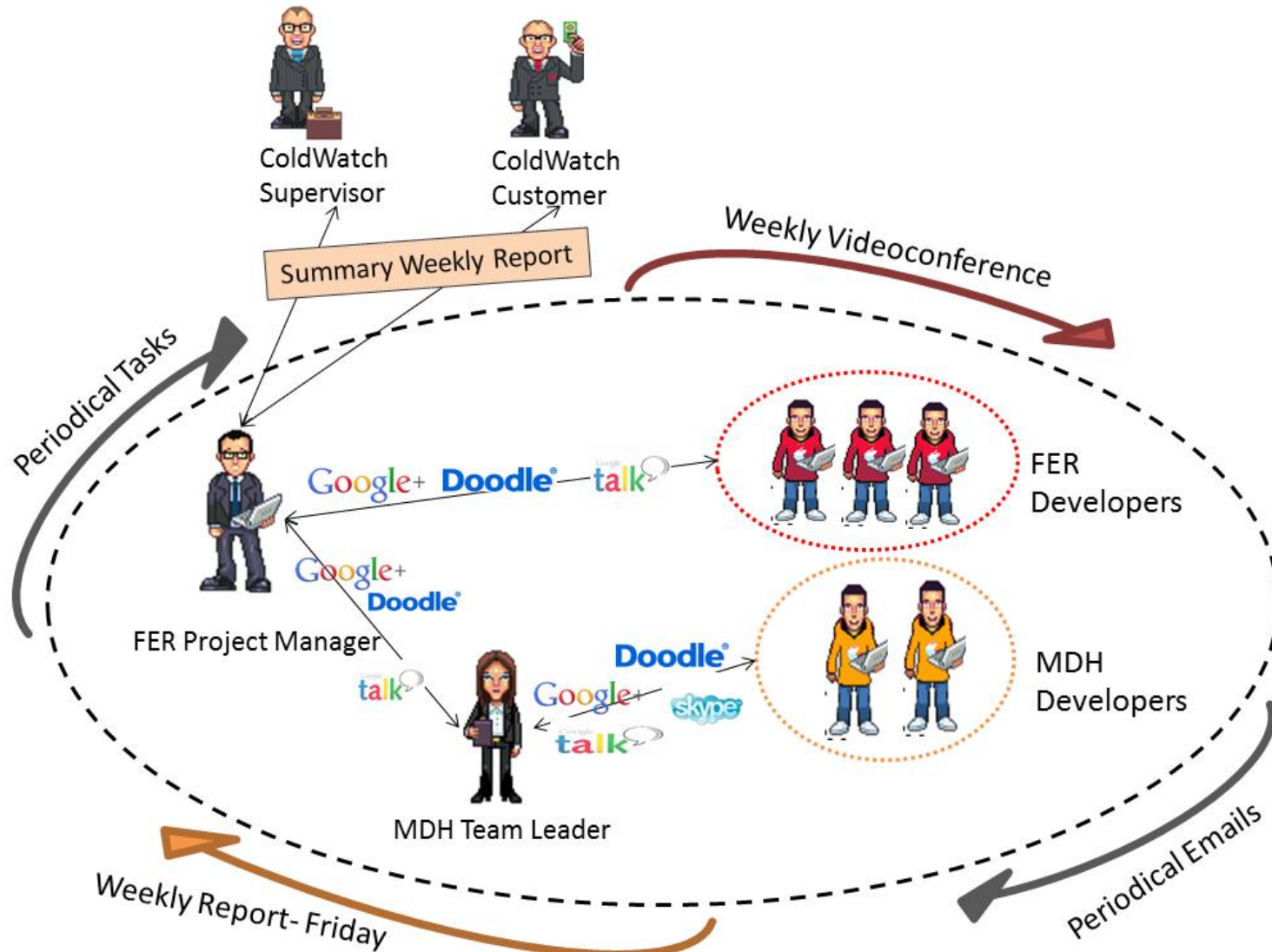
# Team Organization



# Roles and Responsibilities

<b>NAMES</b>	<b>ROLES</b>	<b>RESPONSABILITIES</b>
Luka Postružin	Project Manager	Coordinating activities and communication, Database architect
Angie Angarita	Team Leader	Coordinating activities and communication, Web designer
Usman Alam	Developer	Web developer, SVN coordinator (MDH)
Vallu Sreehari	Tester/Developer	Database developer, testing prototypes
Matija Renić	Developer	GSN developer
Ante Ivanković	Developer	Database developer, SVN coordinator (FER)
Kristijan Šimunić	Tester/Developer	GSN and Web developer, testing prototypes

# Team Communication



# “Freezing pipe problem”

- Sub-zero temperatures in facility  
freezing – pipe bursts – water leaking – damage
- Active heating
  - Expensive
  - Energy inefficient



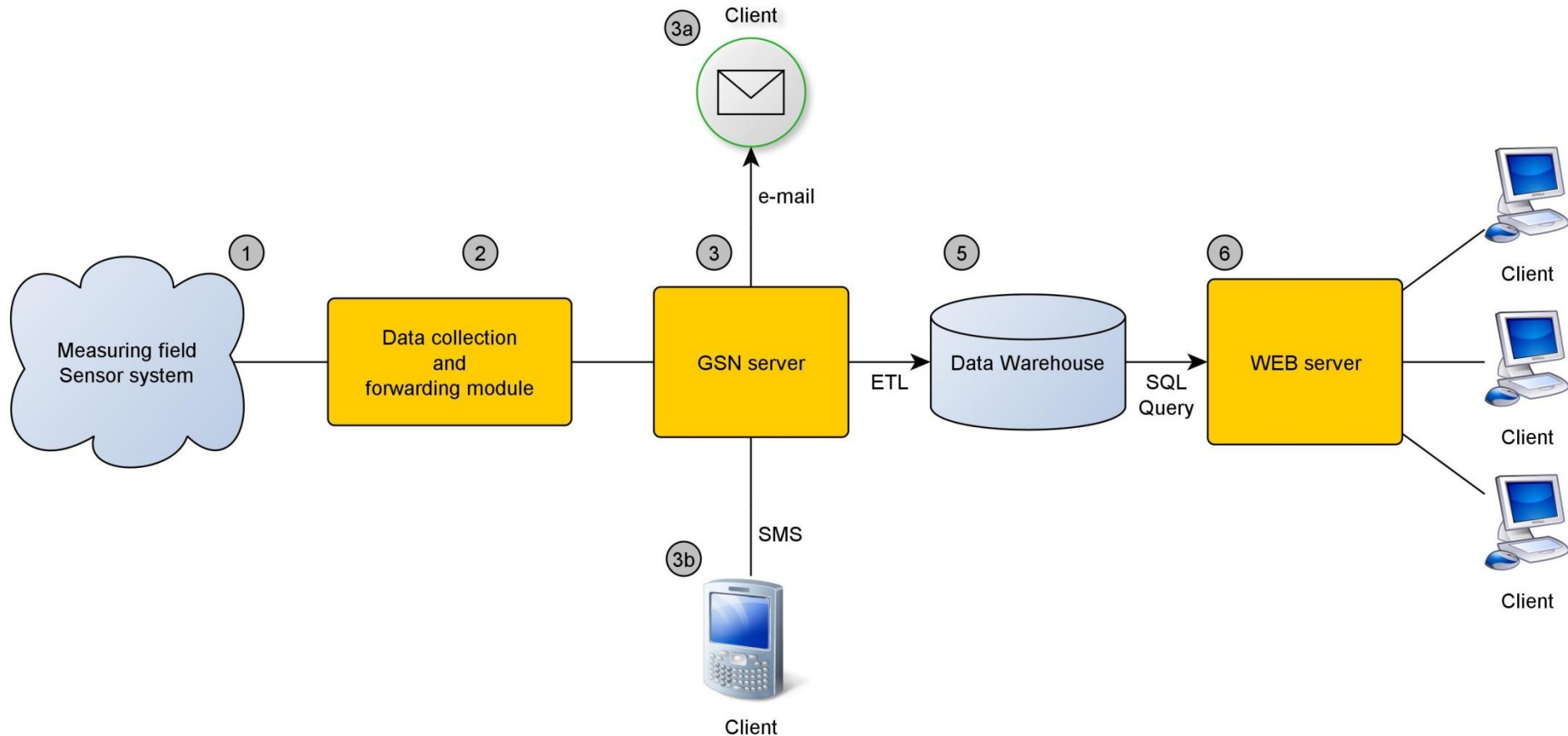
# Solution – ColdWatch

- Passive heating system (tube in soil)
  - Monitoring
  - Data analysis
  - Reporting
  - Alarming
  
- How can we do all of this?



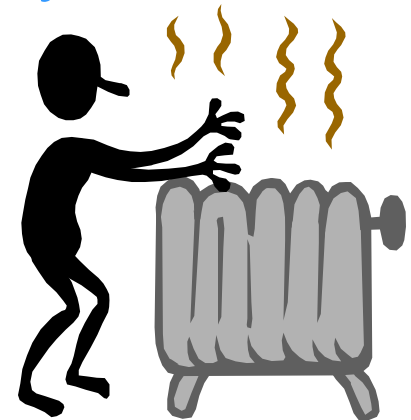


# System components



# Project vision

- GSN server
  - Collecting data from virtual (or real) sensors and basic storage
  - Data management
  - Alarms – automatic notification system via email & SMS
  - System control (fan, heater...)



# Project Vision

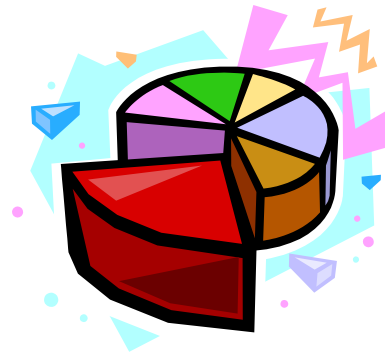
- ETL Process – Data Warehouse
  - Data extraction
  - Data analysis and transformation
  - Loading into database
- What do we need as a result?
  - More than one level of data granulation
  - Good database schema



# Project Vision

- **WEB interface**

- Multiple roles
- Data monitoring
- Data presentation
- System configuration interface
- Generating reports
- Problem prediction



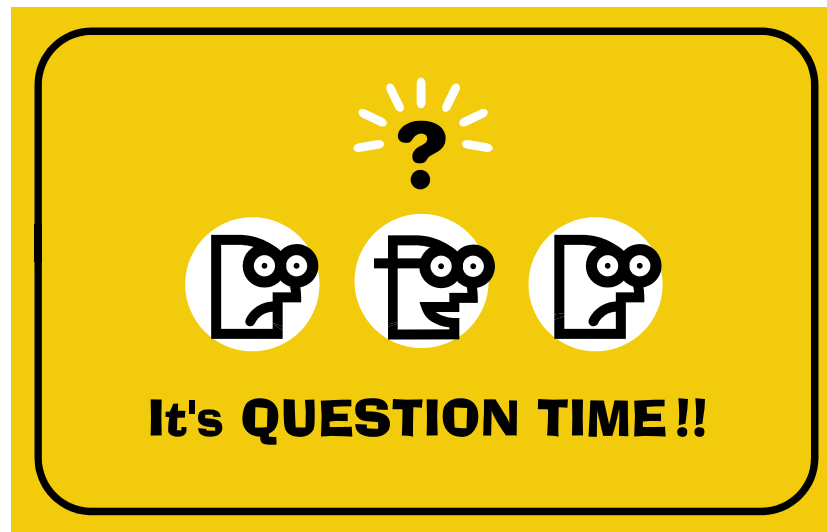
# Technologies

- GSN server
  - Java, XML
- ETL Process – Data Warehouse
  - SQL, PHP/Java
- WEB interface
  - HTML, CSS, PHP, JavaScript

# Feel free to ask questions



(we don't bite 😊)



Thank you for your time!

