## **Proposal**



- Arrangement of learning method use cases
  - Incl. break down to functions and data items

#### Goals

- To establish templates of activity sequence for variations of learning methods
- To feedback to EDUPUB discussion to nominate necessary data

# Learning Methods vs. Specification

### Learning Method: Teacher / Learner View

- Feedback, diary, Q&A
- Speech, debate, inquiry-based learning
- Collaborative Learning, peer learning
- Problem-based Learning, Project-based Learning

## Specification: Engineering View

- Data items / format
- Protocol

#### How to relate them?

- Hierarchical Analysis
- Method -> Activity -> Tool -> Data

# **Analysis Example: Peer Learning**



Method

Peer

Learning



**Atomic Activity** 



Tool



Data etc.

Teacher Shows assignment

Learners Tackle

assignment

Assignment Disclosure

**Human ID** 

Authority

Material ID

Body text

Attached

Learners share their results

Peer Viewing

Discussion

Utterance

Human ID

Time

Body text

Role

**Attached** 

Discussion

Recap Discussion Reaction Report

#### **Available Resources**



- Actual educational method trainers
- Textbooks, workbooks ...
- Learning technology researches
- TEAL examples
  - Techonology enabled Active Learning
- CSCW researches
  - Computer Supported Cooperative Work