



Motivation

- (MSc) students have difficulties on managing their thesis projects
- At TU Delft, Master thesis duration is is 38 weeks on average instead of the nominal number of 21 weeks
 - (N=126, SD=13)
 - This number does not include students that do not complete their thesis



Motivation

- Reasons for delay (survey):
 - Student: Motivation, capabilities and skills, many commitments (e.g. work)
 - Topic: complexity, size, novelty of topic/domain/approach
 - Process: perfectionism, self-study, preparation
 - Skills: analytic skills, writing skills, (lack of) planning project phases and/or other activities
 - Supervision: insufficient, differences between supervisors



Support

- Studies show that students can enhance their academic performance by becoming aware of their own thinking as they read, discuss, otherwise gather information and solve problems
- Benefits:
 - transfers responsibility for monitoring learning from lecturer to student, and
 - promotes positive self perception, affect and motivation amongst students.
- Place responsibility on the students



Requirements for support tool

- Planning (how to achieve objectives or general change)
- Doing (learning through the experience of doing with greater awareness)
- Recording (thoughts, ideas, experiences, evidence of learning through writing, audio, video, visual or other means)
- Reviewing (reflections on what has happened, making sense of it all)
- Evaluating (making judgments about self and own work and determining what needs to be done to develop/improve/move on)
- Link to existing tools (scheduling, course management...)

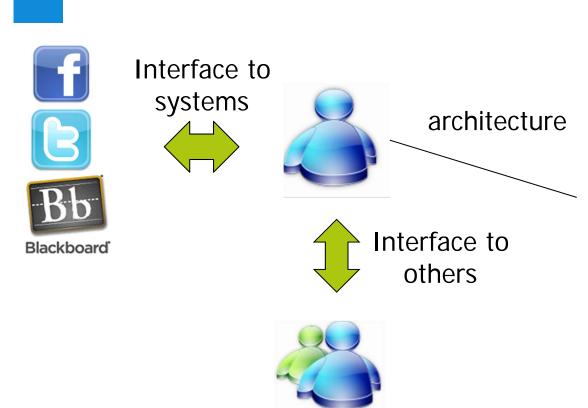


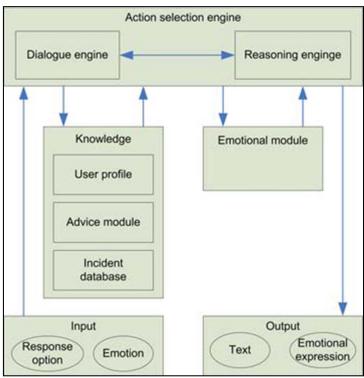
Learn2Learn

- Aim is to explore the potential of using virtual agents as buddies to support master thesis students and their coaching teachers in their master thesis project execution.
- Natural interaction
- Access and present content and context relevant information
- Adapt to the learning style of the user
- Employ emotion and persuasion to engage and motivate the student
- Integration with social network tools and/or study tools (e.g. blackboard)



Learn Buddy concept







Learn2Learn project phases

- Exploration.
 - Literature research and requirement elicitation,
- System architecture
 - Multi-agent system including Embodied Conversational Agent (ECA), information agents, user profiling agent
- Affective behavior design
 - pedagogical, peer-learning or demonstrating.
- Prototyping
- Usability Evaluation and Testing
- Work in progress!



QUESTIONS?

