

CCD, CCeD and DCCeD

- Optimal multifunctional interaction is the key to success in most industries...
- ...and hopefully also in this project...
- Is it possible to save time and money and still deliver better quality and a better product?
- Ambitious, but We think so 😊

WP 2 and WP 3

- WP 2: adaption of the CCeD method for UnderstandIT
- WP 3: 4 distributed CCeD sessions
- WP 3: A design document for Vitae
- WP 3: A Business Plan for running Vitae courses
- WP 3: A set of evaluation reports.

Introduction to the CCD-method

- Subjects today:
 - Concurrent Design - background
 - What is CCD?
 - Principles in CCD
 - The three main elements in CCD
 - The process
 - The peoples
 - The tools
 - HiST/TISIPs method for Concurrent e-learning Design (CCeD)
 - The "new" method in the UnderstandIT project – Distributed Concurrent e-learning Design (DCCeD)

CCD - background?

- NASA had a problem
 - Need for better results
 - In shorter time
 - At lower cost
- Reveal the problems and identify ways to improve
 - Many disciplines involved
 - Difficult to take decisions
 - Decisions with a too narrow perspective
 - Lack of an effective process
- What was the solution?
 - The answer was Concurrent Design

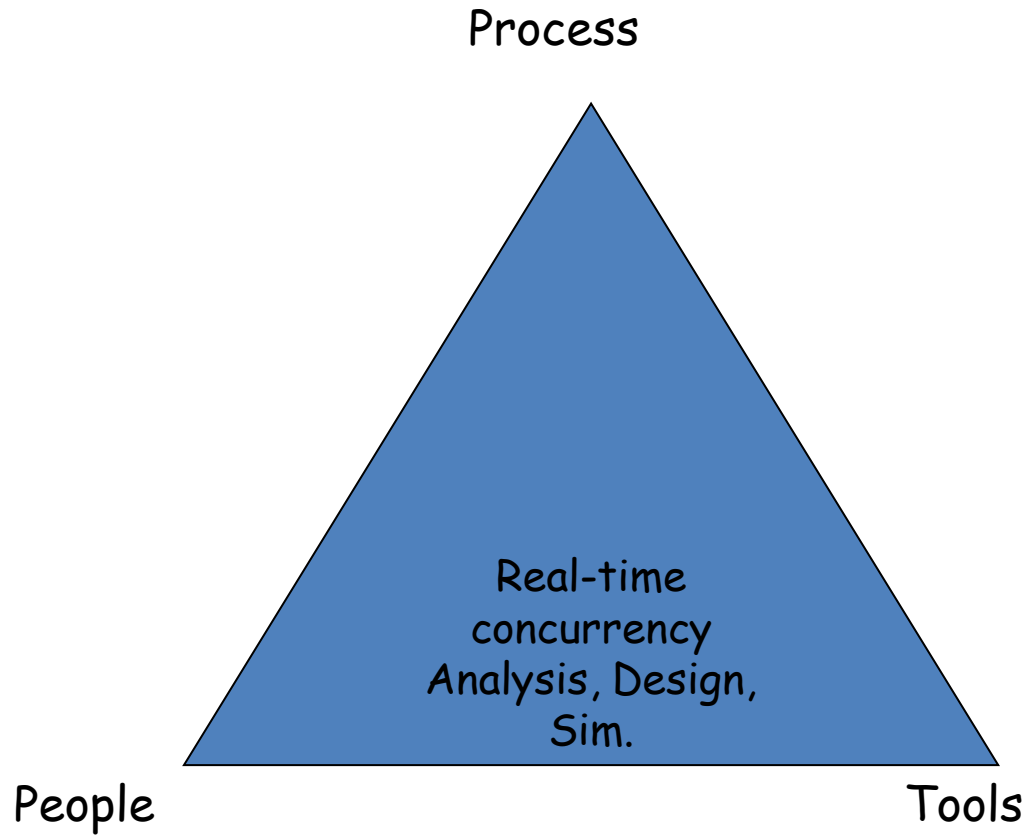
CCD – what is it?

- Concurrent design is a method for multidisciplinary interaction and collaboration in real time in a specially adapted collaboration room
- A method for problem solving of multidisciplinary problems – often on a conceptual level
- The result is often a design document, ready to be implemented
- The method requires use of **experts** from the disciplines involved, a **process** that is pre defined before the sessions and **ICT expert tools**

Principles for CCD

- Knut Øxnevad at NASA has presented some CCD principles
 - Analysis and design are conducted in teams with peoples from different disciplines/experts from different subject areas.
 - The team members work together in real time sessions.
 - Both team members and customers take part in the real time sessions.
 - The activities are done in parallel.
 - Software tools installed on computers linked in a network are used in the real time sessions.
 - The software tools are used in all sessions – from the beginning.
 - Data can be exchanged between the different software tools.

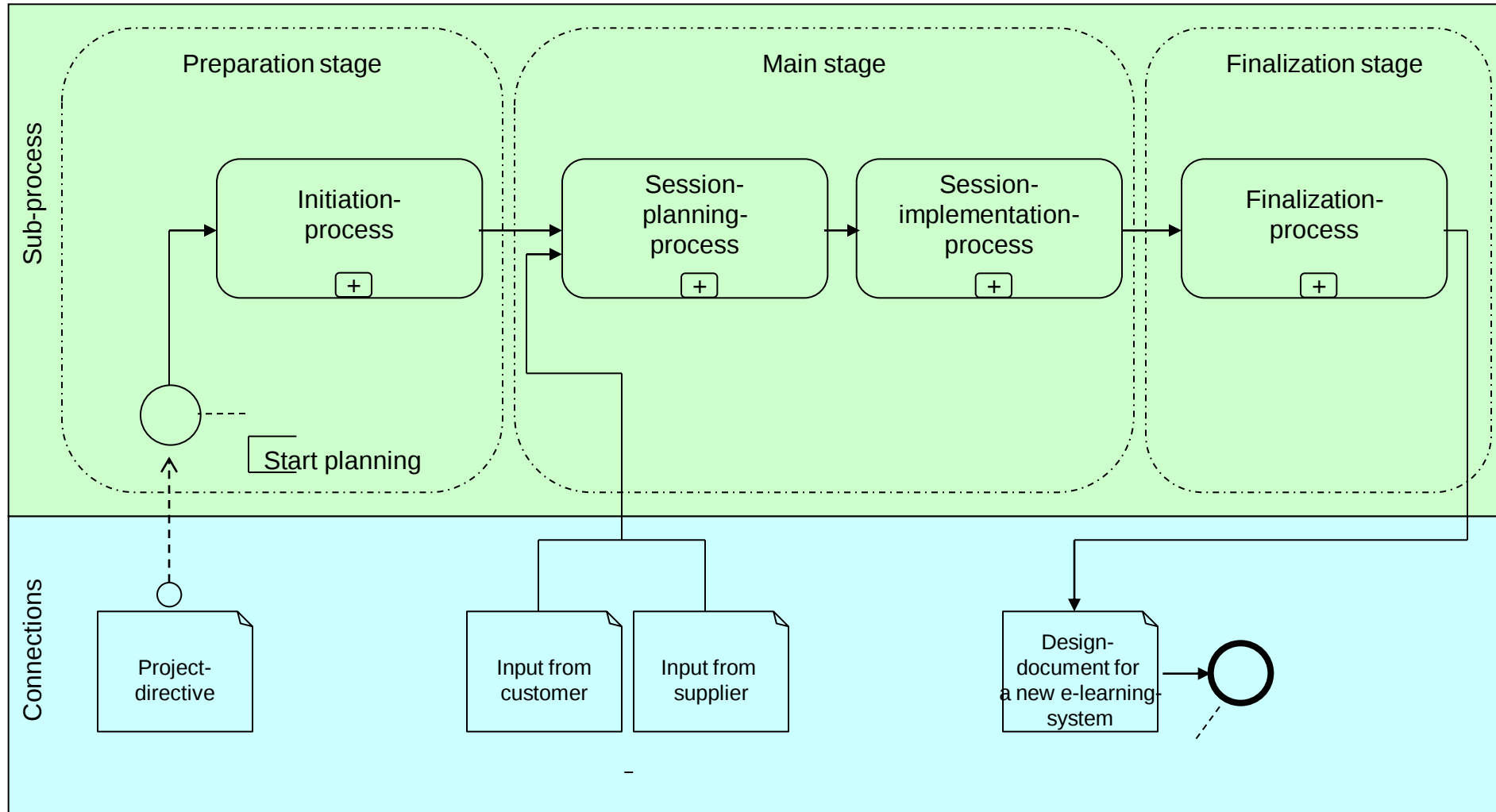
CCD-triangle

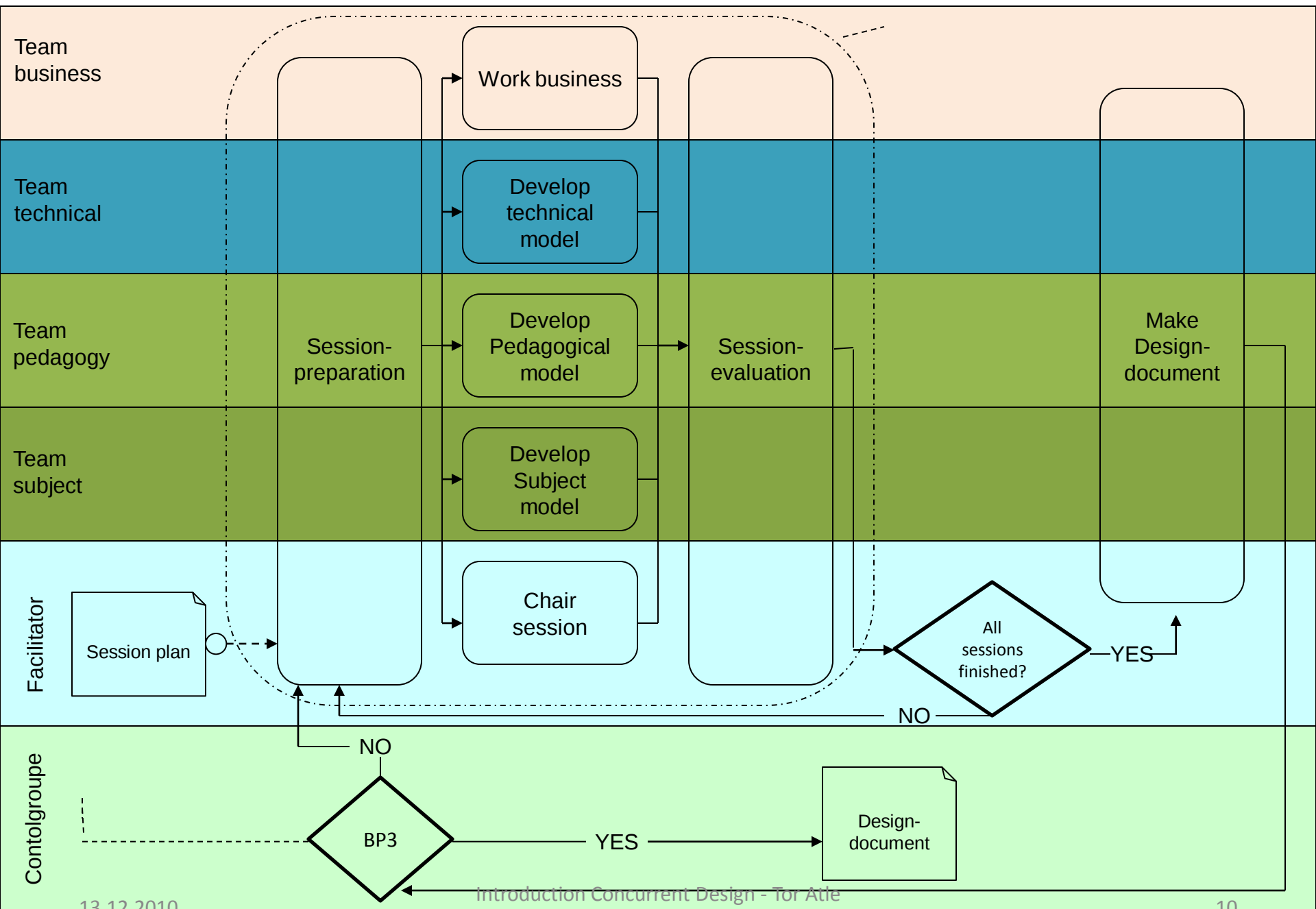


1 – The Process

- A defined process – before we start the sessions
- Sub processes
- The process will be different depending on which line of business we are focusing on, ex. astronautics, oil or education.
- We must map different disciplines/functions, roles, deliveries and the need for different software tools
- Process definition and preparation are often made by the project leader and the facilitator
- In addition to the process description we need a session plan that describes the different sessions and the different goals
- In Concurrent e-learning Design we found four different disciplines or subject areas to focus on – The subject/content, the pedagogy, the technology and the business and student administration

The main process for CCeD





Session plan – CCoD – 5 sessions



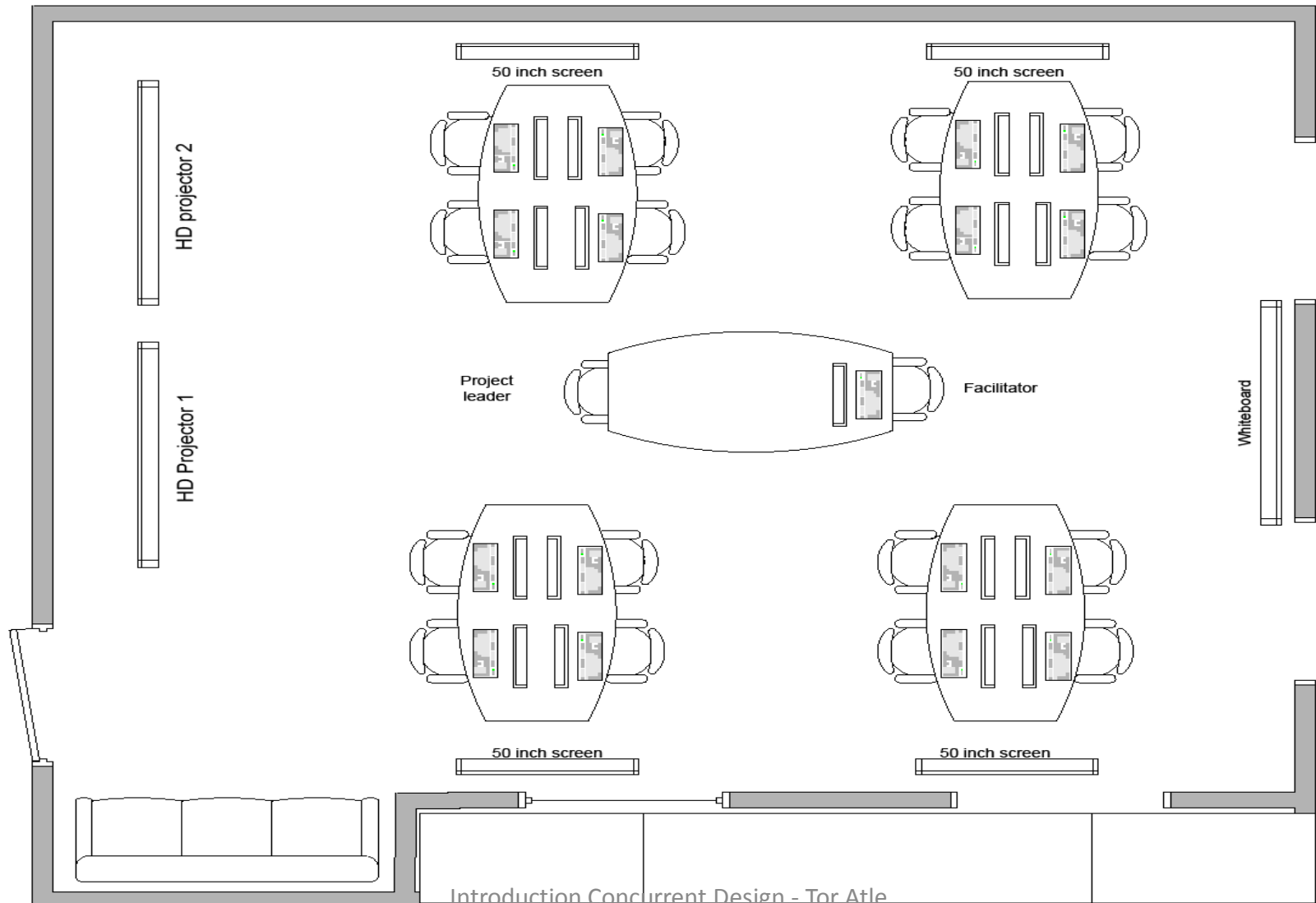
2 – The people

- Representatives from all the different disciplines shall be present in all sessions
- Skills to collaborate
- Have decision authority
- Been trained in CCD
- They (you) are doing the actual job
- Challenging to find the facilitator:
 - The conductor
 - Responsible for preparation
 - Knowledge in all disciplines?
 - Expert in CCD and leader of the sessions

3 – The tools

- People must have access to their expert tools
 - To do the job
 - To share data (challenging)
 - To make real time decisions
 - To visualize the effect of decisions
- The tools are the means, not the goal
- Everything shall work seamless in the collaboration room, no installation during sessions

The CCD collaboration room



The CCD collaboration room

- Where it happens or happened (before Understand IT invented a distributed version 😊)
- Possible to share screens and information
- Rules in the room
 - 3-4 hour sessions
 - No breaks
 - Food and refreshments
 - Decisions should be made by the subject expert
 - Free collaboration between everyone
 - Contact the facilitator to get everyones attention

How to succeed with CCD

- Information (be prepared, access to documents, distribution of work)
- Participants and decision authority
- **Always** be present in sessions
- Training in the CCD-method
- Presentation of status in the beginning and in the end of sessions
- Focus on goals and deliveries in each session
- Work between sessions
- Technical check out before every session! Even more critical in **distributed** CCeD?
- Action list
- Decision list
- Evaluation – this is a research project
- Tasks and responsibilities before the next session (deadlines)

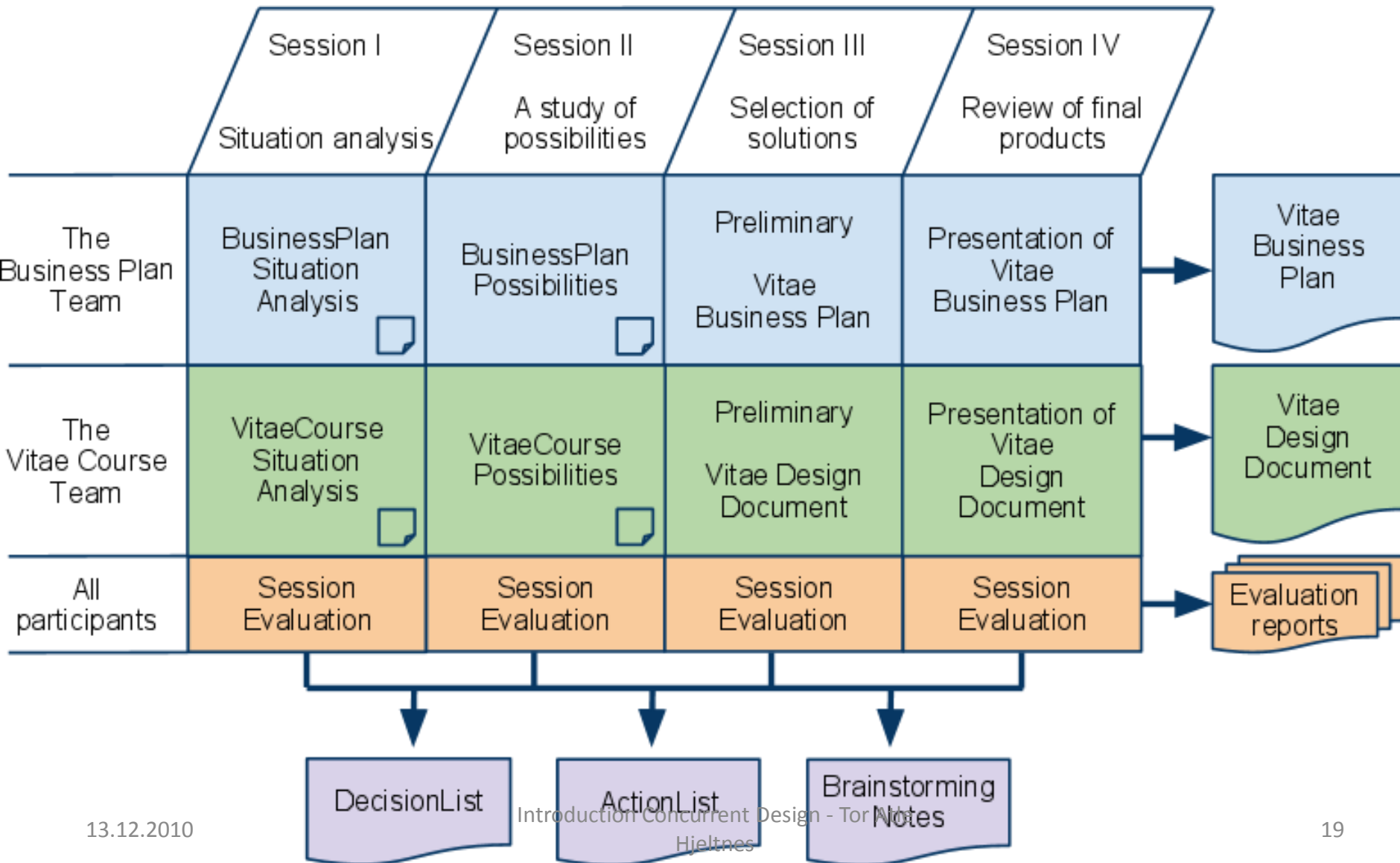
The total picture

- All the main elements must be in place to succeed
- All principles must be followed?
- Everything works better after some practical experience
- Keywords: process plan with stages, multifunctional collaboration, real time work in sessions, parallel progress, decision-making authority
- Benefits: Reduced time, reduced cost, better overall product
- Example: AkerReinertsen, Statoil (invite for tender)

The Understand IT project

- CCD: First HiST learned CCD
- CCeD: We then developed a version of CCD for e-learning, CCeD:
 - 4 disciplines: subject/content, pedagogy, technology and business and administration
 - 5 sessions: situation analysis, study of possibilities, select solution, design of solution, finish design document
- Understand IT: DCCeD, distributed concurrent e-learning design.
- Two major challenges:
 - Adaption of CCeD to fit the projects aims: a business plan, a design document for Vitae (*establishing a CoP and language and cultural adaptations*)
 - A optimal model for **distributed** CCeD

WP03 - Session plan



Deliveries in WP 2 and WP 3

- WP 2: A CCeD process description **adapted to the understand IT project**, to be used to transfer the Vitae results to new usergroups.
- WP 3: A design document for Vitae, using iQTool for QAS and eTutor Portal as a repository.
- WP 3: A Business Plan for running Vitae courses in four institutions, in four European countries, with different EDU market situations.
- WP 3: A set of evaluation reports.

Our preparations

- We have started the adaption of CCeD to fit the Understand IT project: (2 (+2) areas) a business plan, a design document for Vitae (establishing a CoP and language and cultural adaptations)
- We have started to look at solutions of how we can work in distributed sessions in this project - DCCeD