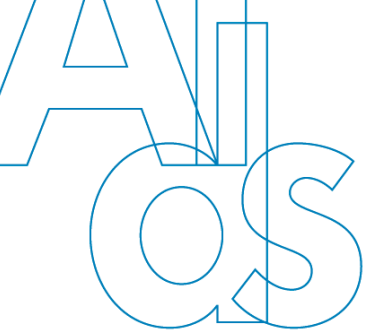# Workshop
System development

22-02-2011

Program Feb 22

- › 09:00h Welcome by Gert de Bruijne (Waste)
  - › Workshop planning
  - › Where were we, where do we stand, where do we go?
- › 09:30h Latest experiences:
  - › 09:30h Andy Bastable (Oxfam GB)
  - › 09:55h Julien Eyrard (ACF)
  - › 10:20h William Carter (IFRC)
  - › 10:45h Do's & Don'ts
- › 11:00h Break Coffee & Tea
- › 11:15h Questionnaire by Atto Harsta (Aldus)
 - › Targets and commitment

2
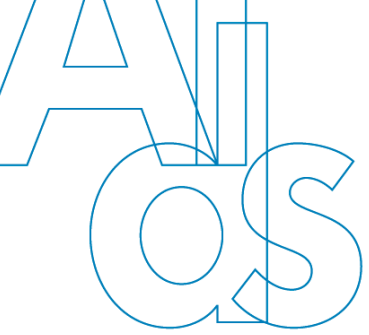
Program Feb 22

› 11:45h System life cycle by Olivier Lauteslager (Aldus)

- › Proces phases, functionalities and issues
- › Select key issues for creative session

› 12:15h The Sanitation Decision Support Tool

- › Presentation by Mark Westra (Waste)

› 12:30h Discussion design brief by Atto Hartsa (Aldus)

- › What are we developing?

› 13:00h Lunch

› 14:00h Creativity session in 3 groups

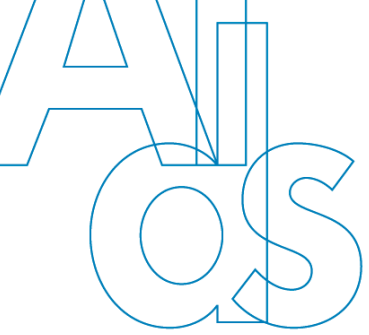- › 14:00h Creative group solutions for different process phases
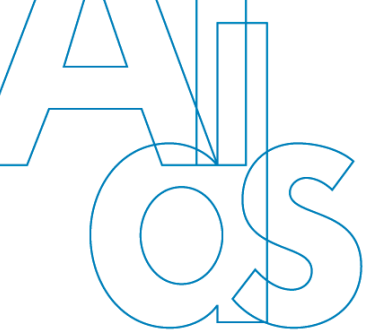
Program Feb 22

› 16:00h Morphological mapping in 3 groups

    › Creating functional concept combinations

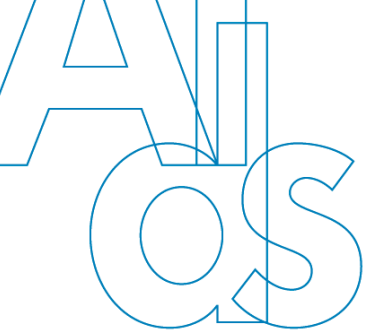› 17:00h Group result presentation

› 17:30h Relaxation

› 18:00h Dinner
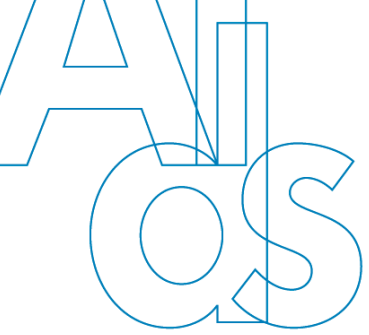
Emergency sanitation

Program Feb 23

› 09:00h Program

> › Evaluating targets

› 09:15h SMART requirements

> › Explanation & example

› 09:30h Determine product requirements in 2 groups

> › Main product challenge
>
> › Requirements following CPP
>
> › Prioritize requirements

› 11:00h Break Coffee & Tea

Program Feb 23
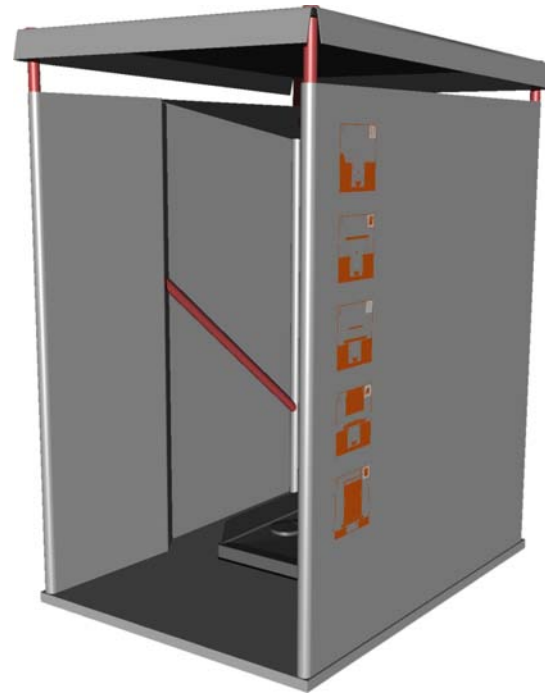
›   11:15h Development process Atto Harsta (Aldus)

     ›   Phases, planning and results

›   11:30h Organisational Model

     ›   Project management, financing, business model

›   12:30h Conclusions by Gert De Bruijne (Waste)

›   13:00h Lunch

›   14:00h Presentation of submitted proposals

     ›   S(p)eed kit by Guy Buyle

     ›   Waste & Rescue by Ase Johannessen

     ›   Flexible response (Gates) by Gert de Bruijne

›   16:00h End of program

Welcome:

› Where were we?

  › Stoutenburg session 2009

› Where are we?

  › Experiences, results & challenges

  › Aldus building innovation

  › Where do we go? By Olivier Lauteslager (Aldus)

  › 2011 session; what can we expect?

  › What is our goal?

Where were we? Stoutenburg 2009

Rapid latrine concept

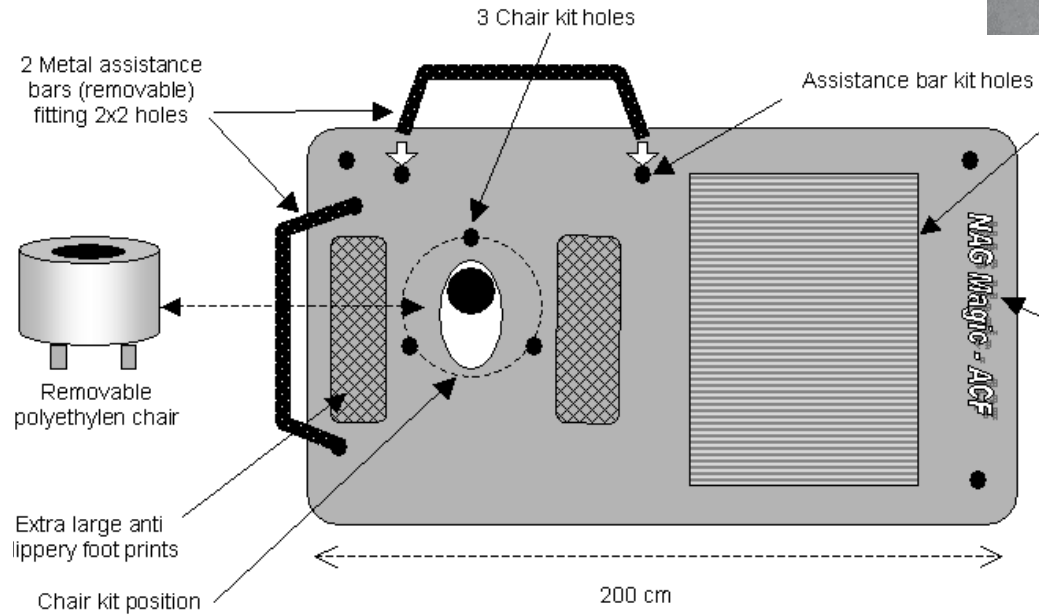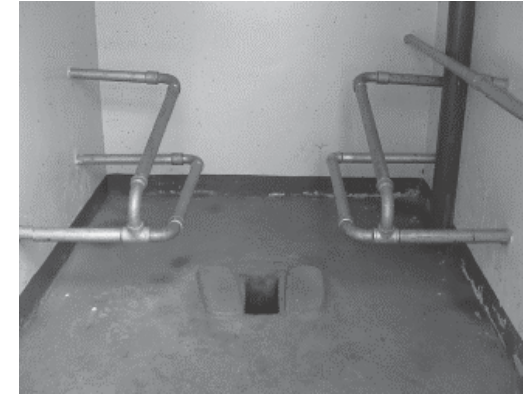
plywood

foam

plastics
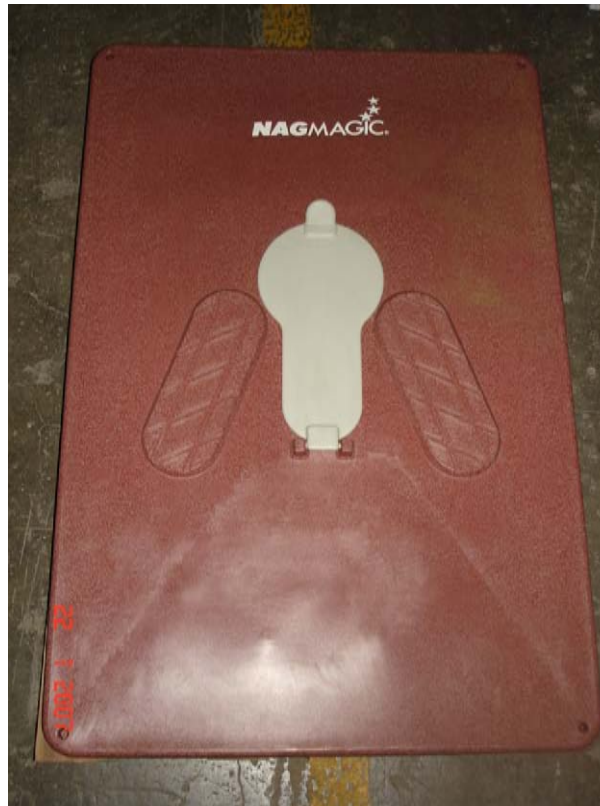
8

Where were we? Stoutenburg 2009

› Disability issues

2 Metal assistance bars (removable) fitting 2x2 holes

3 Chair kit holes

Assistance bar kit holes

Removable polyethylen chair

Extra large anti lippery foot prints

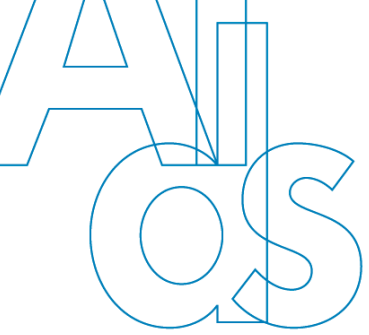Chair kit position

NAG Magic - ACF

200 cm

Disabled people emergency latrine slab draft proposition
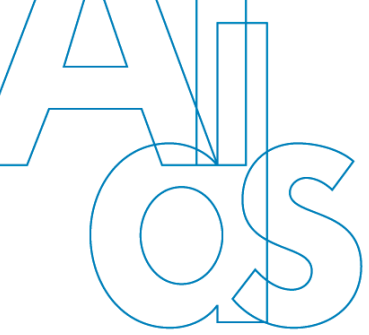
9
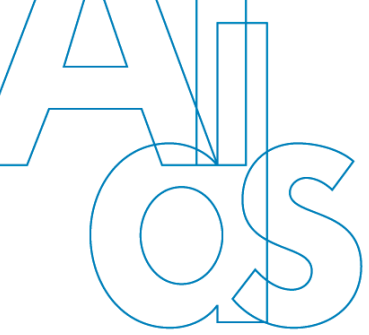
Where were we? Stoutenburg 2009

› NAG concept

Where were we? Stoutenburg 2009

› Reviewing different examples

› Discussing different (context) issues:

  › Population density

  › Children use

  › Dissability use

  › Ecological sanitation

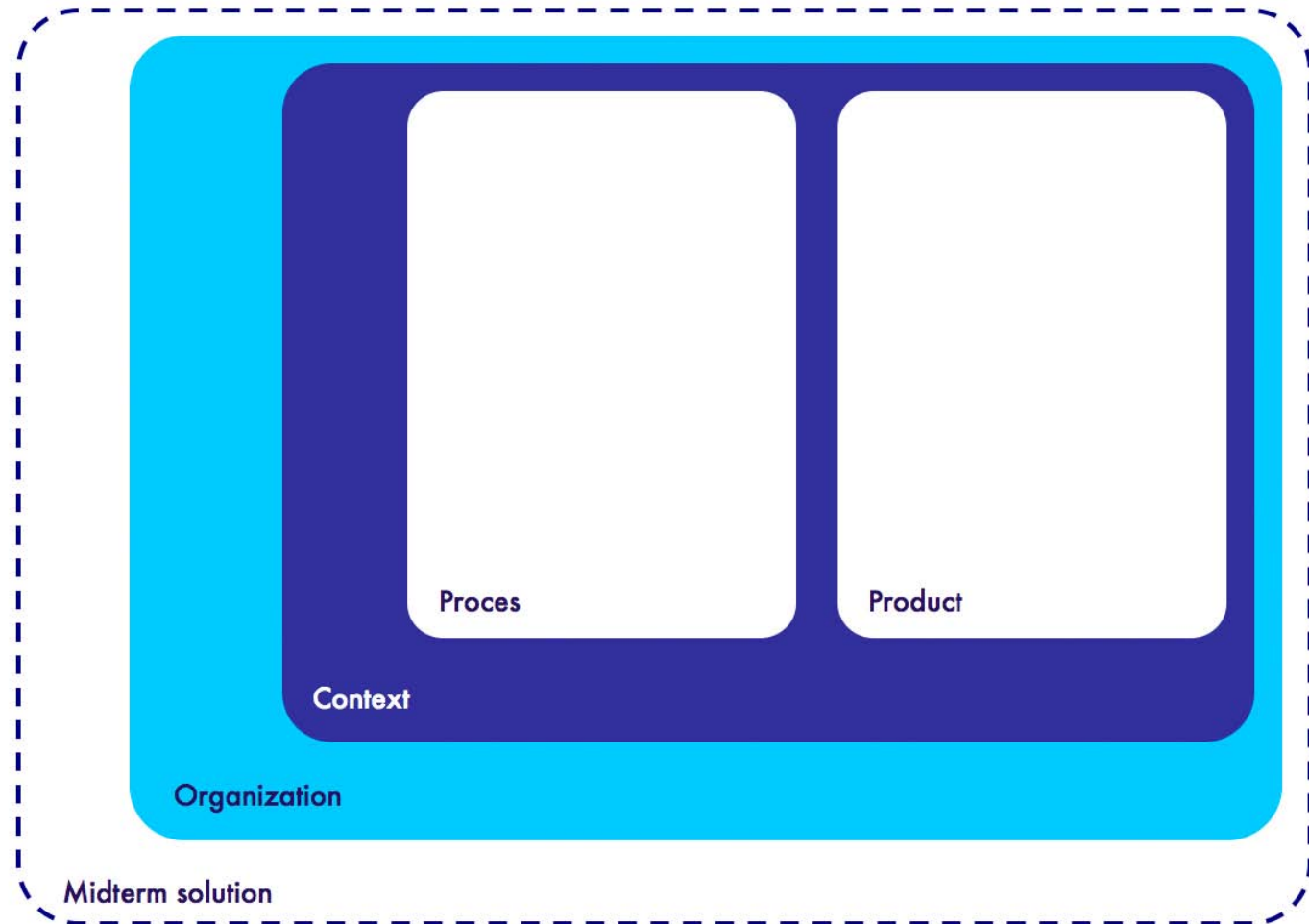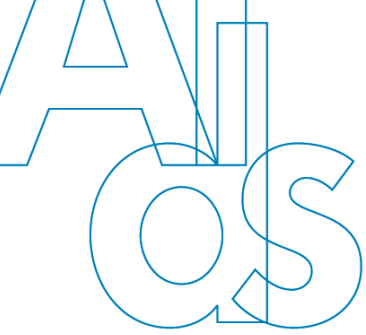› Result: Product (ESP) Specification List

Where are we?

›   Latest emergency intervention experiences

›   No organized Stoutenburg follow-up so far

›   Different other initiatives

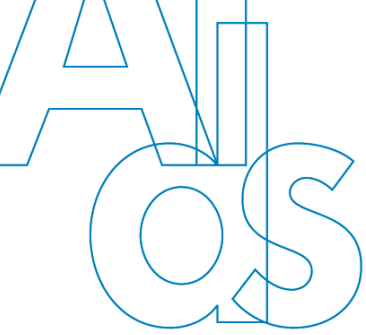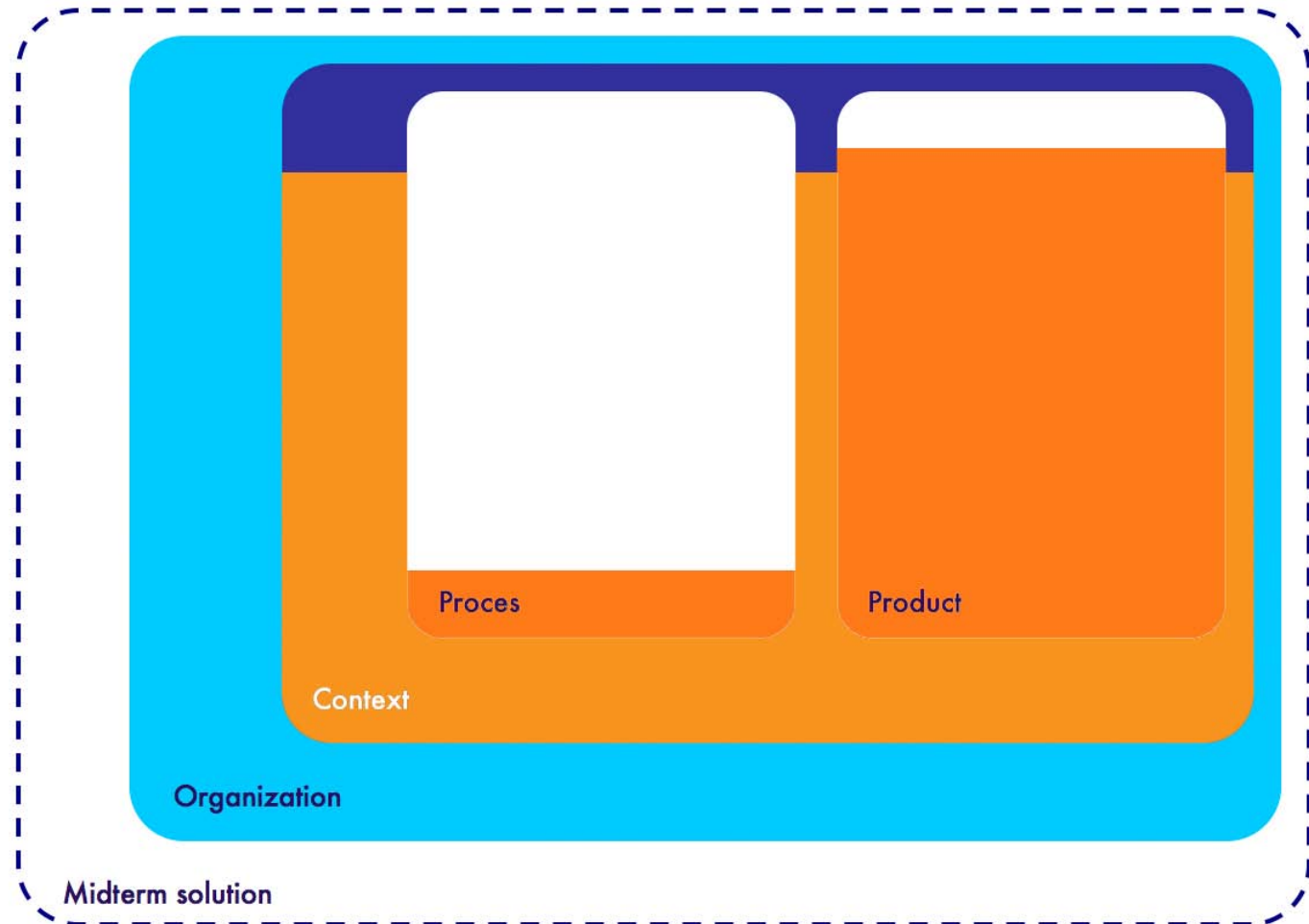›   Introduction Aldus

Where do we go? An integrated solution!

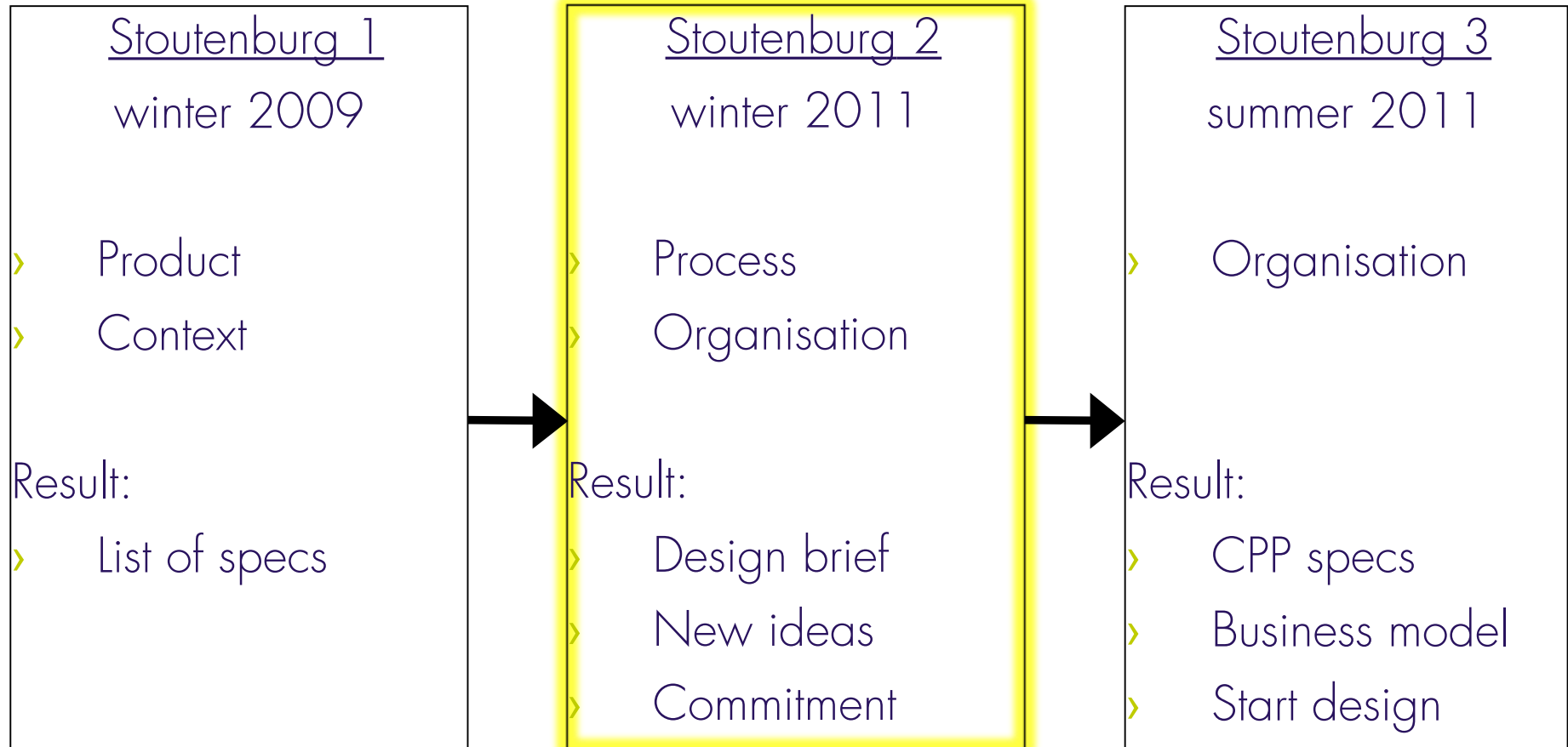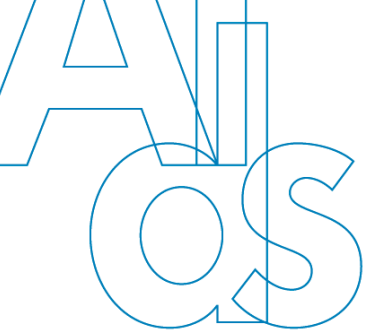Proces

Product

Context

Organization

Midterm solution

Where do we go? An integrated solution!

Where do we go? (proposal Aldus)

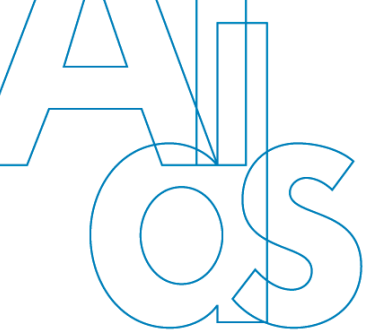| Stoutenburg 1 winter 2009	Stoutenburg 2 winter 2011	Stoutenburg 3 summer 2011
› Product › Context Result: › List of specs	› Process › Organisation Result: › Design brief › New ideas › Commitment	› Organisation Result: › CPP specs › Business model › Start design

Where do we go?

› Goal of Stoutenberg 2:

   › Common understanding on design brief

   › New ideas as input for development phase

   › Define commitment and organisation for next steps

› Aldus is your process facilitator

› Participants are responsible for input and results

› Theme: Emergency sanitation & Serious fun ☺

Latest Experiences

› 09:30h Andy Bastable (Oxfam GB)

› 09:55h Julien Eyrard (ACF)

› 10:20h William Carter (IFRC)

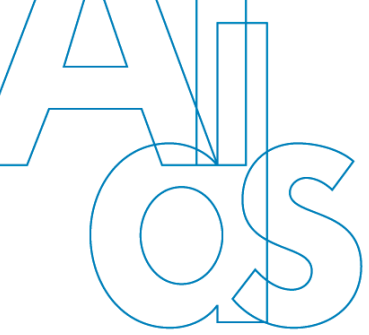› 10:45h Do's & Don'ts

  › Your opinion and recommendations

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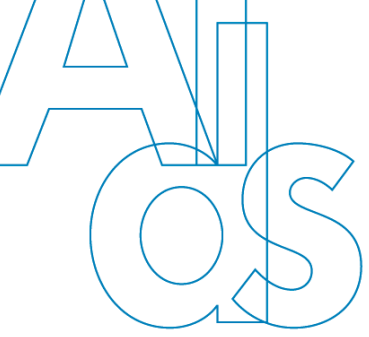
Questionnaire:

› 1. Desired outcome of this development session?

› 2. What kind of commitment is your organisation prepared to offer? In terms of information input, employee involvement and financing?

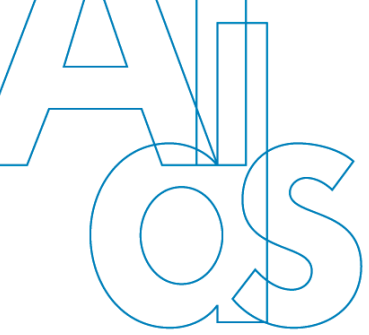› 3. Are you prepared to make compromises when cooperating with other organisation? On what terms?

18
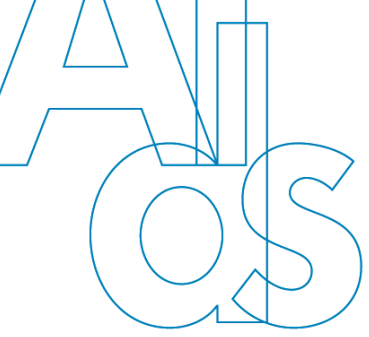
System Life Cycle (Process)

› Presentation; phases, functionalities and issues

› Complete additional process steps

› Select key process issues for creative session

› Specify key process issues

19

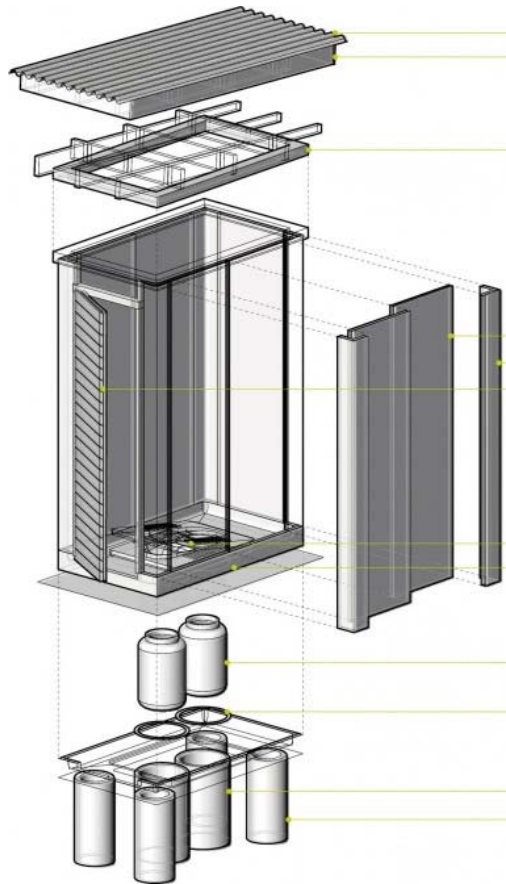# The Sanitation Decission Support Tool (Context vs Product)

› Presentation

The Design Brief:

Solution type:

> Immediate respons (direct emergency aid)   ✖

> Medium term (organisation in place)   ✔

> Long term (after agencies leave)   ✖

CPP combination:

> Context

> Process

> Product
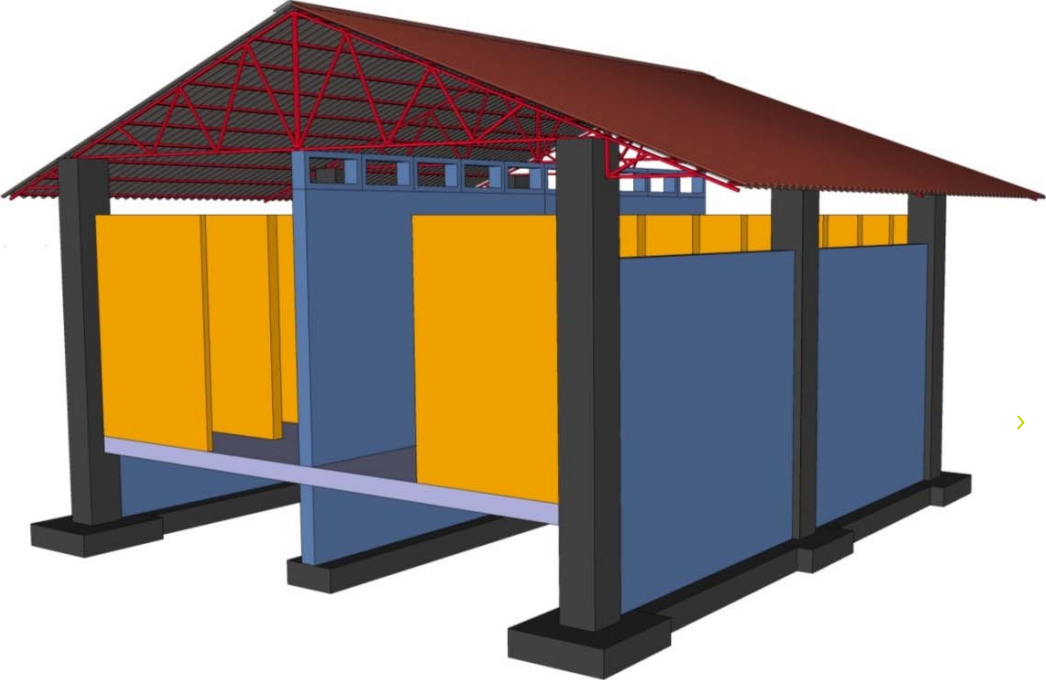
21

Immediate solutions

Medium term solutions

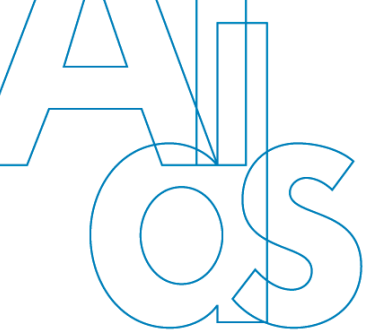› 100% prefabricated

› Partially prefabricated
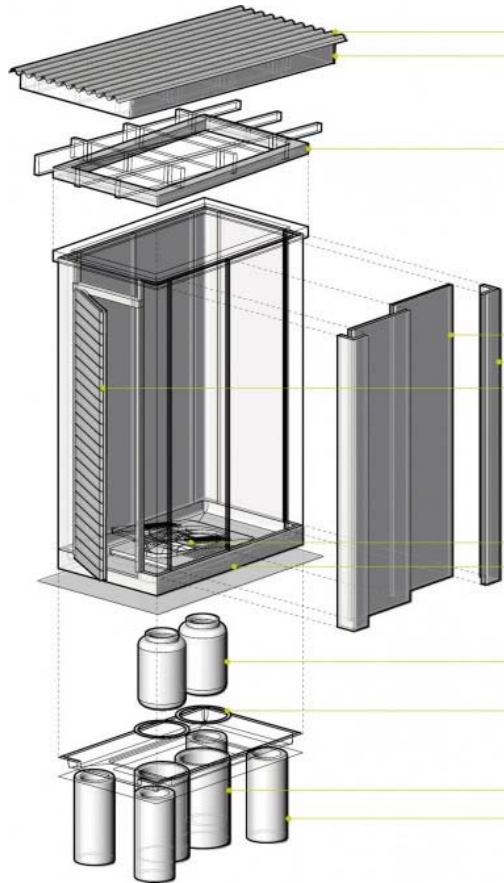

23

Long term solutions

› Safisana

› Ecosan

24

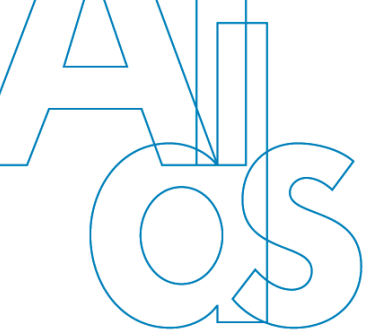## The Design Brief:

CPP combination:

› Context

› Process
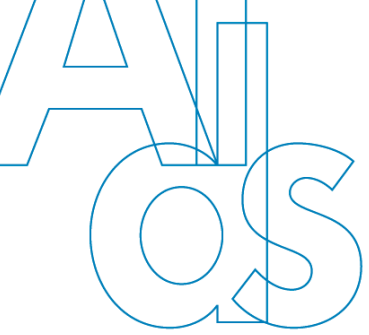
› Product

Design Brief: (Discussion example)

Develop new <u>Emergency Sanitation System(s)</u> for:

› medium term emergency assistance

› 80% of the victim population, adjustable to 95% (context)

› For all parts and cultures of the world (context)

› Suitable for all soil types and water levels (context)

which is:

› partially prefabricated, widely obtainable, No IP (product)

› locally finished, assembled and re-use-able (process)
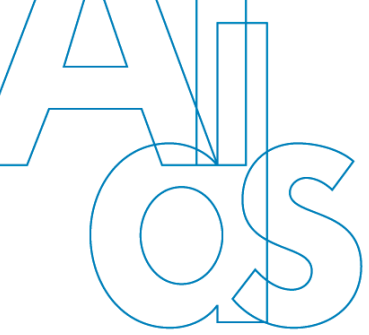
In accordance with the following requirements:

Creativity session Introduction:

Introduction

› Brain dumping

› Associating game

Rules for creative sessions:

› Postpone judgement No criticism!

› Quantity above quality

› The weirder the better

› Use other ones ideas to associate

› No copyrights

Creativity session Part 1:

Selected key issues (3)

› Generating solutions

    › Associating subject 1 (superhero technique)

    › Associating subject 2 (direct analogy technique)

    › Associating subject 3 (process sabotage)

› Selection of best solutions
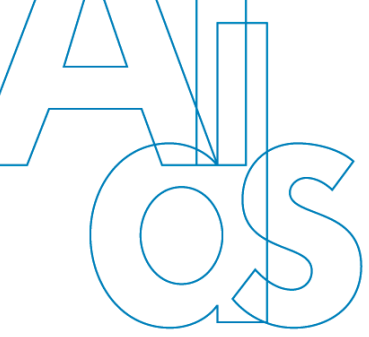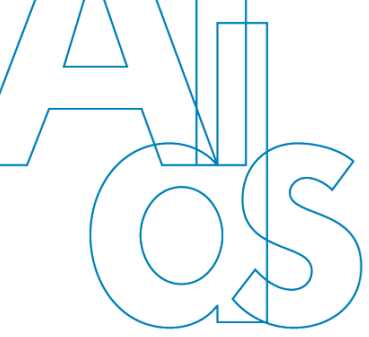
Creativity session Part 1:

Selected key issues (3)

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› Associating subject 1 (superhero technique)

› Associating subject 2 (direct analogy technique)
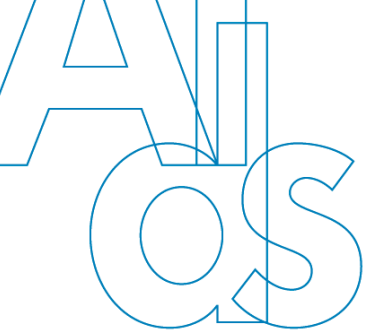
› Associating subject 3 (process sabotage)
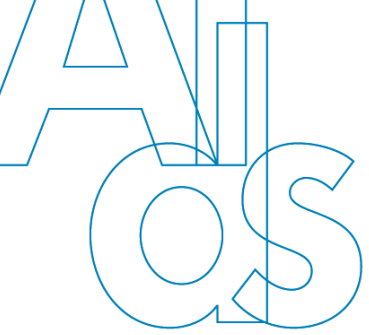
Creativity session Part 2:

Morphological Mapping

› Choose priority specification

› Creating combinations of partial solutions
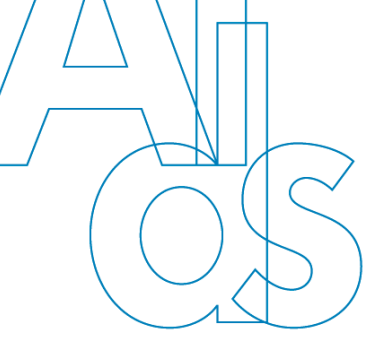
› Selection of best combinations

Presenting results

Program Feb 23

› 09:00h Program

  › Evaluating targets

› 09:15h SMART requirements

  › Explanation & example

› 09:30h Determine product requirements in 2 groups

  › Main product challenge

  › Requirements following CPP

  › Prioritize requirements
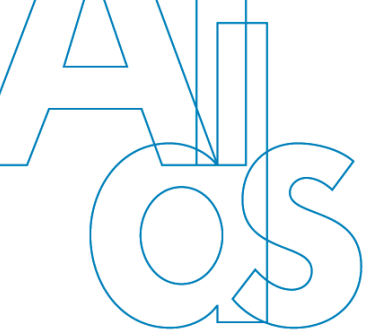
› 11:00h Break Coffee & Tea

Emergency sanitation

Program Feb 23

› 11:15h Development process Atto Harsta (Aldus)

  › Phases, planning and results

› 11:30h Organisational Model

  › Project management, financing, business model

› 12:30h Conclusions by Gert De Bruijne (Waste)

› 13:00h Lunch

› 14:00h Presentation of submitted proposals

  › S(p)eed kit by Guy Buyle

  › Waste & Rescue by Ase Johannessen

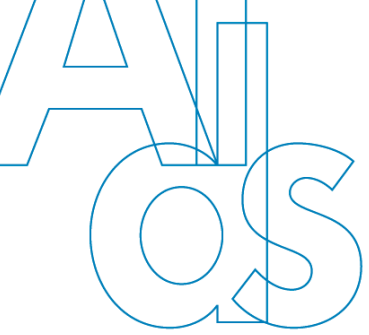 › Flexible response (Gates) by Gert de Bruijne

› 16:00h End of program

Questionnaire:

› 1. What do you wish the outcome of this development session to be ideally?

› 2. What kind of commitment is your organisation prepared to offer? In terms of information input, employee involvement and financing?

› 3. Are you prepared to make compromises when cooperating with other organisation? On what terms?
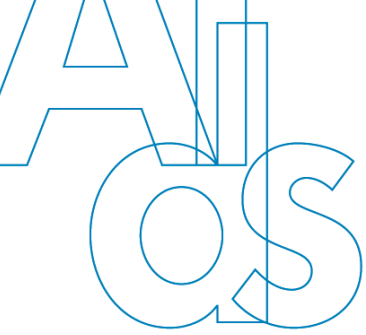
SMART requirements:

› Specific

› Measurable

› Achievable
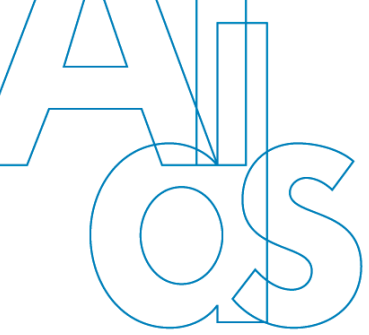
› Relevant

› Time bounded

Product Specifications 1 (2009)

Emergency Sanitation Platform:

› Self supporting construction

› Made from durable plastics:

› Weight:

› Stacked & packed efficiently

› Life time: 5 years minimum

› Non slippery surface

› Easy cleanable

› Assembly of 25 toilets/day

› Bright color

Product Specifications 2 (2009)

› Add ons

- › Urine Diversion pan with lid
- › Child potty with lid
- › Grips for disabled and elderly
- › Wheelchair extension
- › Excreta chambers (with sliding doors)
- › Containers for urine and faecal matter
- › Hand washing basin
- › Stairs or ramp
- › Supporting poles
- › Pipes

Example:

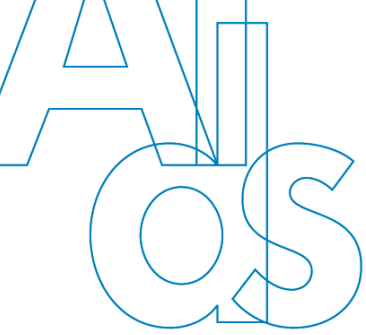SMART requirements ESP 2009 vs 2011:

i.e.

- **Self-supporting**; weight capacity 2000N; span 1,20meters
- **Minimal weight**; max 7,5kg
- **Durable plastic**; Durable material minimum 10years use, worldwide obtainable, constant quality, recyclable, closed surface, non slippery, different colours available
- **Stacked & packed efficiently**; 40slabs per euro pallet
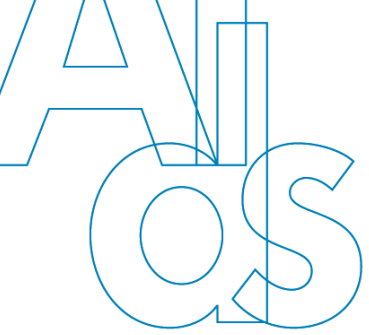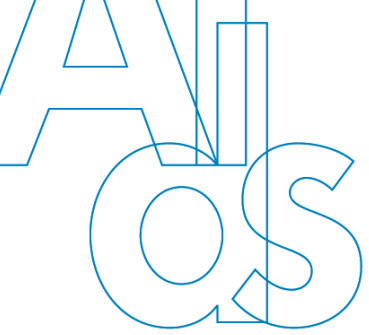
Determine product requirements:

› Main product challenge

› Requirements following CPP

› Prioritize requirements

Development process:

› Strategic phase

› Research & analysis

› Design brief

› Creation phase

› Preliminary design

› Realisation phase

› Final design

› Implementation phase
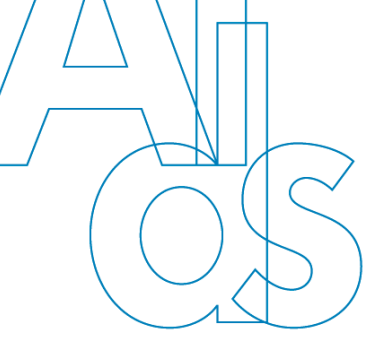
› Prototyping

› Field testing

› Introduction strategy
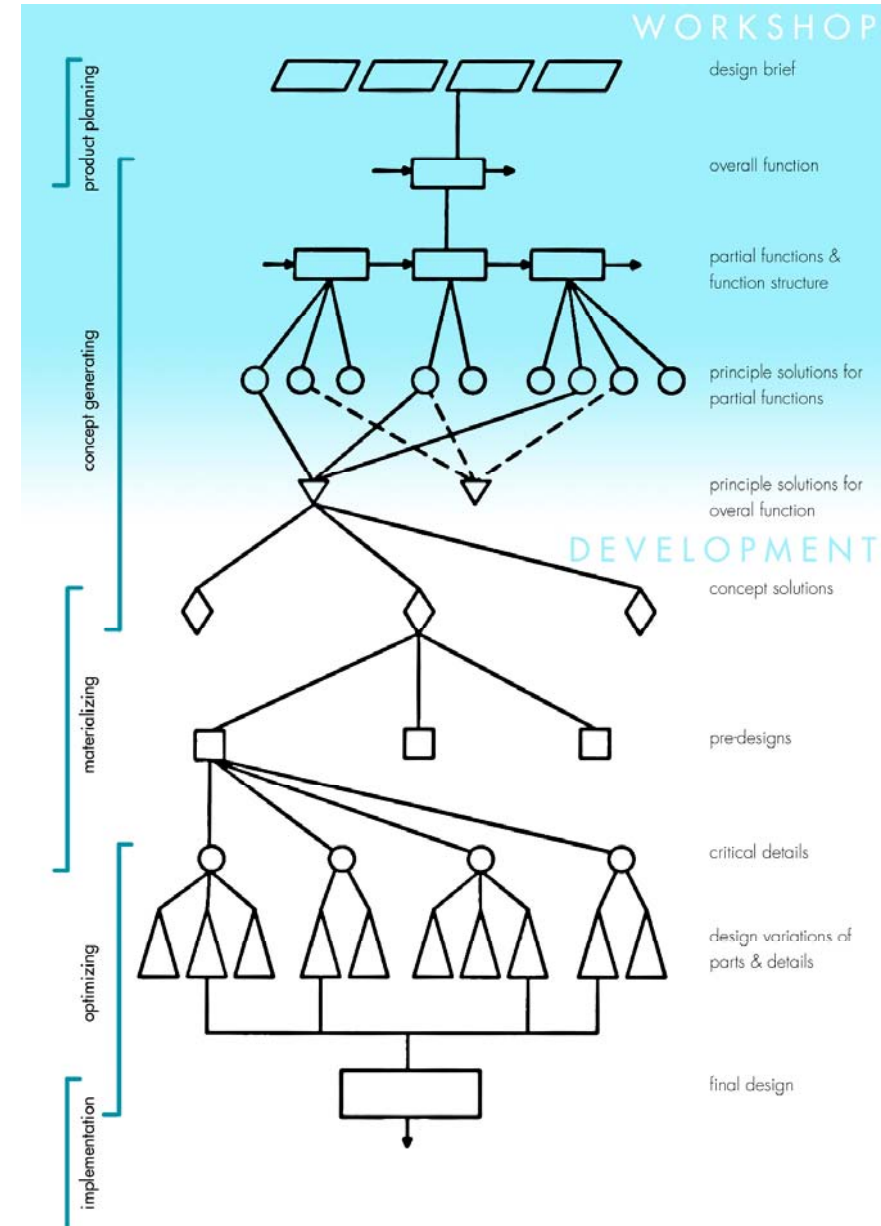
Time schedule

› Strategic phase

› Research & analysis

› Design brief

› Creation phase

› Preliminary design

› Realisation phase

› Final design

› Implementation phase

› Prototyping

› Field testing

› Introduction strategy

App. 1,5 year

40

Questionnaire:

› 1. What do you wish the outcome of this development session to be ideally?

› 2. What kind of commitment is your organisation prepared to offer? In terms of information input, employee involvement and financing?

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