

ITERATION

- ▶ Fail early to learn together at high speed

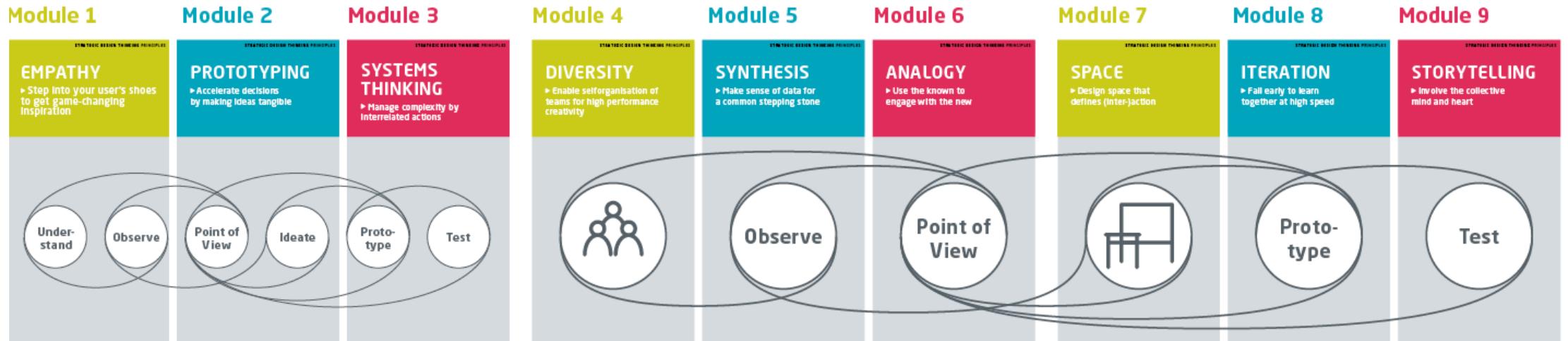
Iteration Exercise:

How to transform failure into added value for a good solution

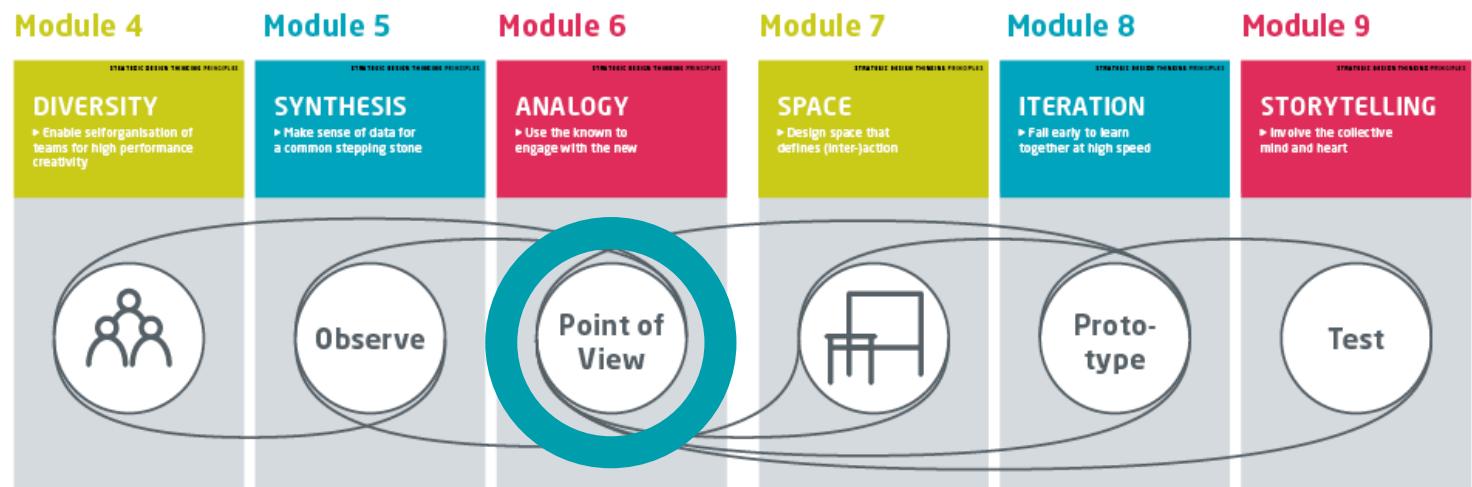
By the Course Coaching Team

Course challenge:
*Redesign the learning experience
in a world where schools do not exist.*

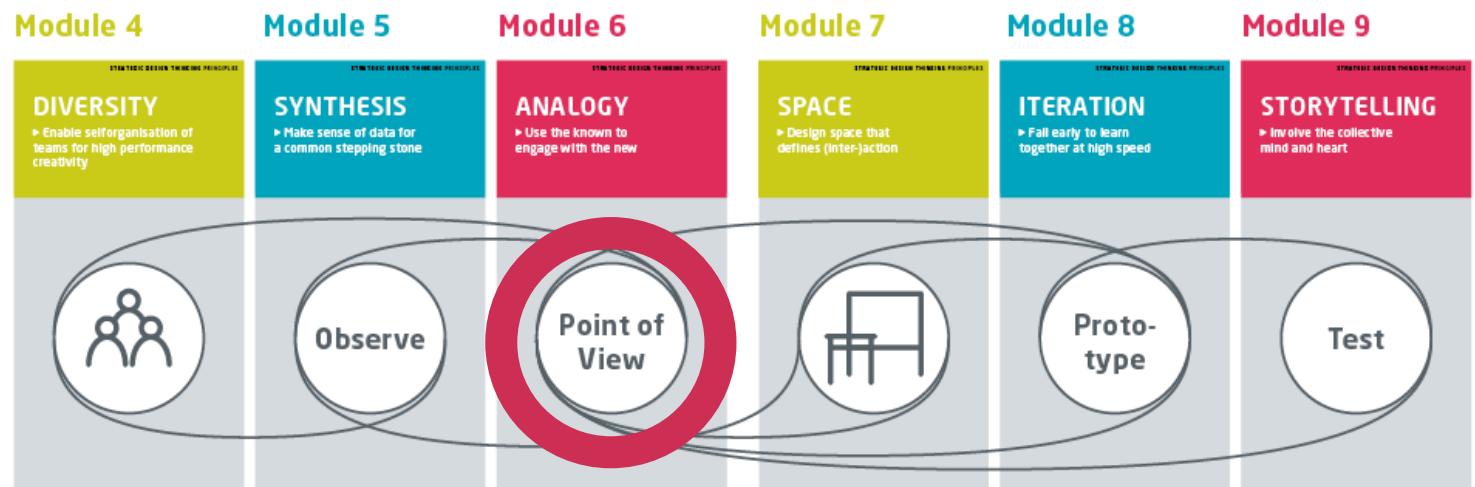
Where we have left of ...



Synthesis



Analogy



Documentation Block 2



Iterated Idea

Module 1

EMPATHY
» Step into your user's shoes to get game-changing inspiration

Module 2

PROTOTYPING
» Accelerate decisions by making ideas tangible

Module 3

SYSTEMS THINKING
» Manage complexity by interrelated actions



Solution

Module 4

DIVERSITY
» Enable selforganisation of teams for high performance creativity

Module 5

SYNTHESIS
» Make sense of data for a common stepping stone

Module 6

ANALOGY
» Use the known to engage with the new



Good Solution

Module 7

SPACE
» Design space that defines interaction

Module 8

ITERATION
» Fall early to learn together at high speed

Module 9

STORYTELLING
» Involve the collective mind and heart

IDEA DOCUMENTATION BLOCK 1 Module 3

» Review your idea after testing it in the system.
You want to incorporate the feedback from stakeholders and users by adding details and/or modifications to your initial idea.

For documentation, paste your How-Might-We-Question from the Idea Springboard template here.

ITERATED IDEA (15 min)
Name of the iterated idea

Description Product, process, service...

Key function for user Helps the user to better (functional need)...

Emotional benefit So that the user feels (emotional need)...

Your name and contact information optional

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SOLUTION DOCUMENTATION BLOCK 2 Module 6

» Define your solution that has been amplified by multiperspectivity.
You want to describe your solution more detailed as a basis for Block 3.

For documentation, paste your POV from the Need Mixer template here.

SOLUTION (15 min)
Name of the solution

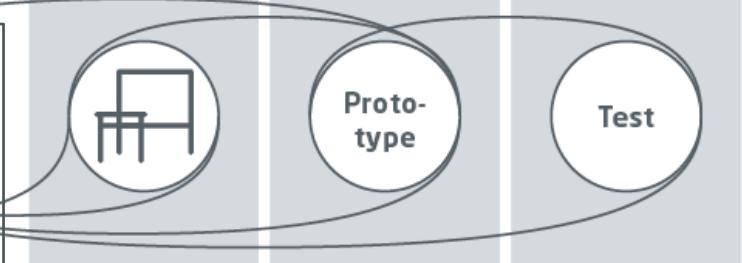
Description Product, process, service...

Key function for user Helps the user to better (functional need)...

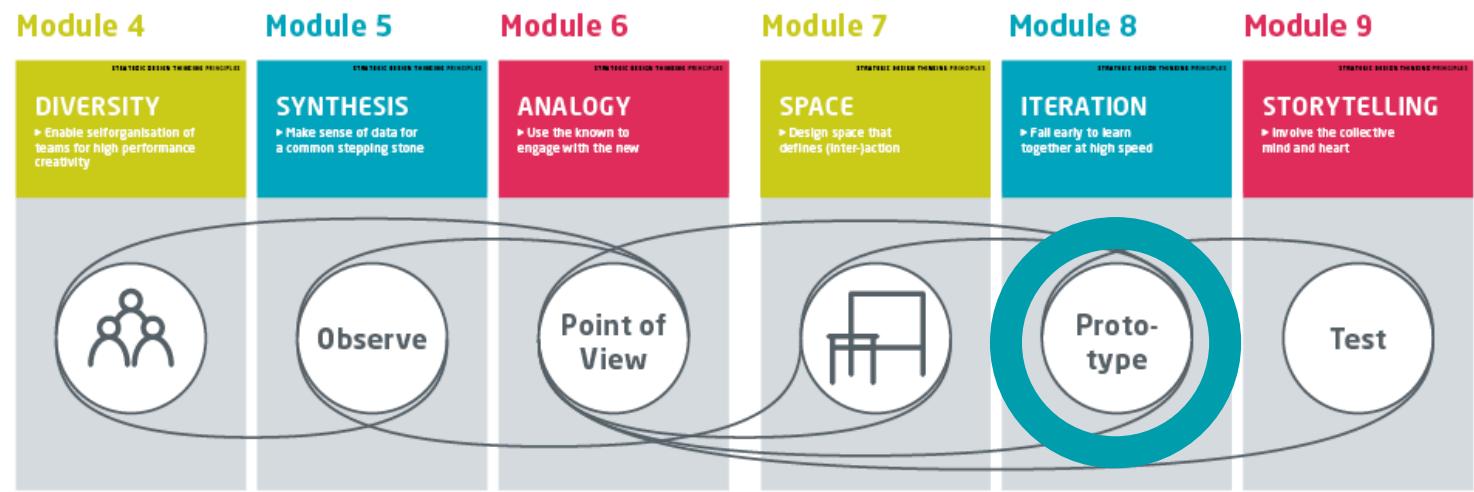
Emotional benefit So that the user feels (emotional need)...

Your name and contact information optional

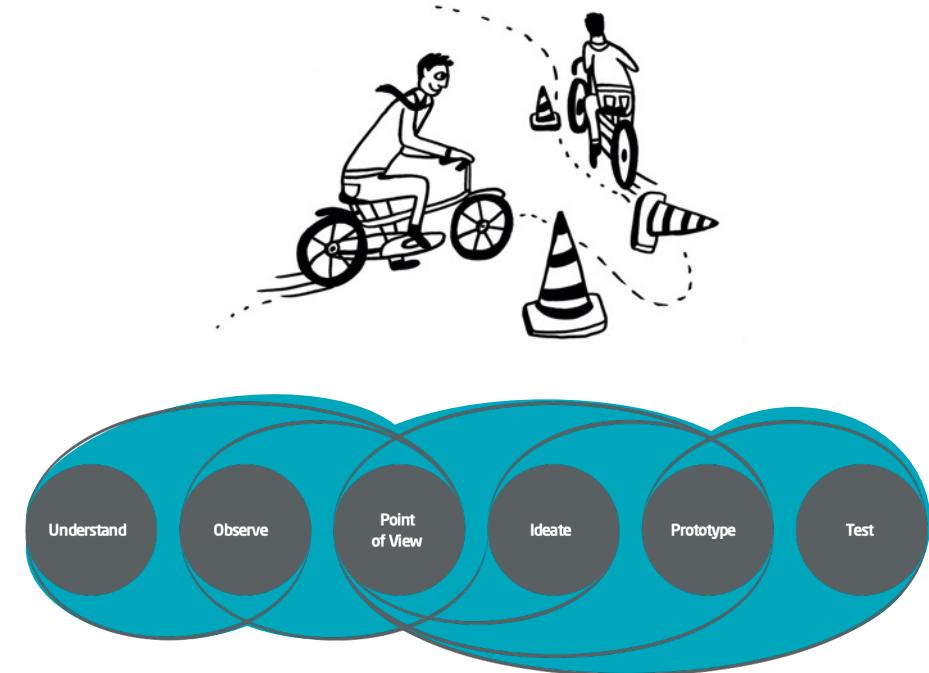
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Synthesis



Iteration in the Process



Iteration Exercise

CRITICAL FEEDBACK GRID

» Transform failure into added value for your solution.
You want to iterate your solution by taking critical points as inspiration for your creativity.

PREPARATION

1. Take out the filled-out Solution Documentation template from Block 2.
2. Recruit one tester within the inner or wider Stakeholder System of your challenge to get feedback. Ask them for 15 minutes of their time.

STEPS (45 min)

1. 5 min: Conduct a feedback session by starting introducing yourself if necessary and clearly address your negative feedback objective.
2. 10 min: Present your solution with at least a visualization and a short explanation of what it is and in which situation the user could use it. Do not "sell", just share and encourage critical remarks.
3. 10 min: Document and cluster the negative feedback, consisting of critics about core function, specific aspects, personal feelings and the social system the solution is embedded in.
4. Choose the critique that you like the least. The more extreme and critical it is, the better it will serve you as a stepping stone for iterating your solution.
5. 5 min: Ideate for your iteration and make changes inspired by the critique:
 - a) What if I change the user?
 - b) What if I change the usage-situation?
 - c) What if I change the solution form, material or process?
6. 15 min: Document your iterated solution in the Good Solution template.
You will need it for Module 9.

CRITICAL FEEDBACK GRID

Core function	Aspects
Personal feelings	Social system's reaction

Your name and contact information optional

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Iteration Exercise

CRITICAL FEEDBACK GRID

Module 8



» Transform failure into added value for your solution.

You want to iterate your solution by taking critical points as inspiration for your creativity.

PREPARATION

1. Take out the filled-out Solution Documentation template from Block 2.
2. Recruit one tester within the inner or wider Stakeholder System of your challenge to get feedback. Ask them for 15 minutes of their time.

STEPS (45 min)

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2. 10 min: Present your solution with at least a visualization and a short explanation of what it is and in which situation the user could use it. Do not "sell", just share and encourage critical remarks.
3. 10 min: Document and cluster the negative feedback consisting of critics about

CRITICAL FEEDBACK GRID

Core function

Aspects

Personal feelings

Social system's reaction

Solution Documentation Block 2

SOLUTION DOCUMENTATION BLOCK 2

» Define your solution that has been amplified by mutliperspectivity.
You want to describe your solution more detailed as a basis for Block 3.

For documentation, paste your POV from the Need Mixer template here.

Danni, a highly motivated everyday learner. Although learning is something she likes, she often has problems making it clear to others that it's an investment that shall be recognized. HMW help Danni to easily express to others that her learning process is an investment?

SOLUTION (15 min)

Name of the solution
The learn investment tracker

Description Product, process, service, ...
An online tool that automatically tracks: learning sources, learning time, learning modes (reading, writing, thinking), and amount of non-learning moments.

Key function for user Helps the user to better (functional need) ...
It helps Danni to have a neutral evaluation of her learning investment including a visualisation that is automatically connected to the learning result (document) for the result user.

Emotional benefit So that the user feels(emotional need) ...
I release her from the burden to justify her time investment and appreciation is not a matter of individual expression but has a factual tool.

Draw a quick sketch of your solution and insert a photo of it here.



Your name and contact information optional
Miriam Steckl, miriam.steckl@hpi-academy.de

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Iteration Exercise

2. Recruit one tester within the inner or wider Stakeholder System of your challenge to get feedback. Ask them for 15 minutes of their time.

STEPS (45 min)

1. 5 min: Conduct a feedback session by starting introducing yourself if necessary and clearly address your negative feedback objective.
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Personal feelings	Social system's reaction
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Your name and contact information optional

Critical Feedback Grid

😢 Core function

😢 Aspects

😢 Personal feelings

😢 Social System's reaction

Iteration Exercise

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This step is highlighted with a teal rounded rectangle.
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Core function

Need of self-optimization:

"It is only a tracker that provides me with a bunch of data, but it doesn't provide an interpretation to improve learning behaviour in terms of efficiency."

Aspects

Personal feelings

Social system's reaction

Iteration Exercise

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Core function

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"It is only a tracker that provides me with a bunch data, but it doesn't provide an interpretation to improve learning behaviour in terms of efficiency."

Aspects

Not being controlled by the machine but rather supported in healthy learning behaviour:

Differentiation between good and bad pauses. Which parameters are necessary to be tracked to interpret the quality of a pause?

Personal feelings

Social system's reaction

Iteration Exercise

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Personal feelings

Personal security in the digital context:

"Which of my data is used and how? Where are the ethical limits of the tool?"

Social system's reaction

Iteration Exercise

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Aspects

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Social system's reaction

Disruption in relationship as tool is more powerful:

"Even greater uncertainty as to when my girlfriend can or may interrupt me."

Iteration Exercise

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"Which of my data is used and how? Where are the ethical limits of the tool?"

Aspects

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Social system's reaction

Disruption in relationship as tool is more powerful:

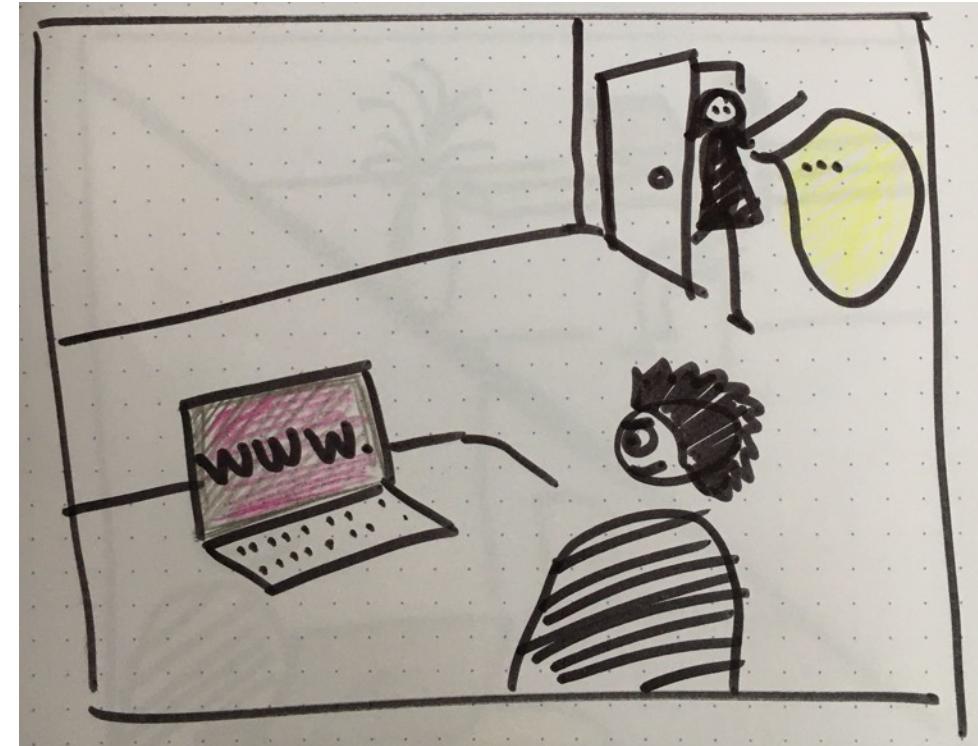
"Even greater uncertainty as to when my girlfriend can or may interrupt me."

Iteration Exercise

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Documentation Block 3



Iterated Idea

Module 1

EMPATHY
▶ Step into your user's shoes to get game-changing inspiration

Module 2

PROTOTYPING
▶ Accelerate decisions by making ideas tangible

Module 3

SYSTEMS THINKING
▶ Manage complexity by interrelated actions



Solution

Module 4

DIVERSITY
▶ Enable selforganisation of teams for high performance creativity

Module 5

SYNTHESIS
▶ Make sense of data for a common stepping stone

Module 6

ANALOGY
▶ Use the known to engage with the new



Good Solution

Module 7

SPACE
▶ Design space that defines interaction

Module 8

ITERATION
▶ Fall early to learn together at high speed

Module 9

STORYTELLING
▶ Involve the collective mind and heart

IDEA DOCUMENTATION BLOCK 1

» Review your idea after testing it in the system.
You want to incorporate the feedback from stakeholders and users by adding details and/or modifications to your initial idea.

For documentation, paste your How-Might-We-Question from the Idea Springboard template here.

Draw a quick sketch of your iterated idea and insert a photo of it here.

ITERATED IDEA (15 min)

Name of the iterated idea

Description Product, process, service...

Key function for user Helps the user to better (functional need)...

Emotional benefit So that the user feels (emotional need)...

Your name and contact information optional

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SOLUTION DOCUMENTATION BLOCK 2

» Define your solution that has been amplified by multiperspectivity.
You want to describe your solution more detailed as a basis for Block 3.

For documentation, paste your POV from the Need Mixer template here.

Draw a quick sketch of your solution and insert a photo of it here.

SOLUTION (15 min)

Name of the solution

Description Product, process, service...

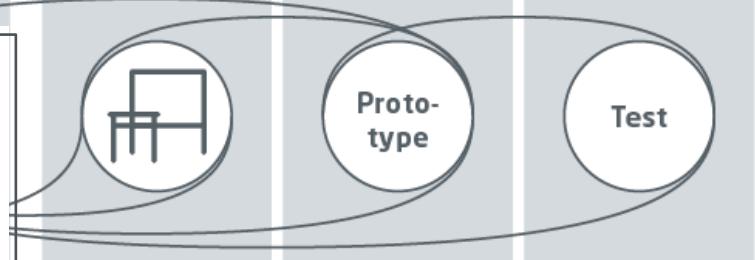
Key function for user Helps the user to better (functional need)...

Emotional benefit So that the user feels (emotional need)...

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Documentation Block 3



Iterated Idea

Module 1

STRATEGIC DESIGN THINKING PRINCIPLES
EMPATHY
» Step into your user's shoes to get game-changing inspiration

Module 2

STRATEGIC DESIGN THINKING PRINCIPLES
PROTOTYPING
» Accelerate decisions by making ideas tangible

Module 3

STRATEGIC DESIGN THINKING PRINCIPLES
SYSTEMS THINKING
» Manage complexity by interrelated actions



Solution

Module 4

STRATEGIC DESIGN THINKING PRINCIPLES
DIVERSITY
» Enable selforganisation of teams for high performance creativity

Module 5

STRATEGIC DESIGN THINKING PRINCIPLES
SYNTHESIS
» Make sense of data for a common stepping stone

Module 6

STRATEGIC DESIGN THINKING PRINCIPLES
ANALOGY
» Use the known to engage with the new



Good Solution

Module 7

STRATEGIC DESIGN THINKING PRINCIPLES
SPACE
» Design space that defines interaction

Module 8

STRATEGIC DESIGN THINKING PRINCIPLES
ITERATION
» Fall early to learn together at high speed

Module 9

STRATEGIC DESIGN THINKING PRINCIPLES
STORYTELLING
» Involve the collective mind and heart

IDEA DOCUMENTATION BLOCK 1 Module 3

» Review your idea after testing it in the system.
You want to incorporate the feedback from stakeholders and users by adding details and/or modifications to your initial idea.

For documentation, paste your How-Might-We-Question from the Idea Springboard template here.

| Draw a quick sketch of your iterated idea and insert a photo of it here.

ITERATED IDEA (15 min)
Name of the iterated idea

Description Product, process, service...

Key function for user Helps the user to better (functional need)...

Emotional benefit So that the user feels (emotional need)...

Your name and contact information optional

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SOLUTION DOCUMENTATION BLOCK 2 Module 6

» Define your solution that has been amplified by multiperspectivity.
You want to describe your solution more detailed as a basis for Block 3.

For documentation, paste your POV from the Need Mixer template here.

| Draw a quick sketch of your solution and insert a photo of it here.

SOLUTION (15 min)
Name of the solution

Description Product, process, service...

Key function for user Helps the user to better (functional need)...

Emotional benefit So that the user feels (emotional need)...

Your name and contact information optional

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GOOD SOLUTION DOCUMENTATION BLOCK 3 Module 8

» Define your good solution that has been leveraged by iteration.
You want to describe your good solution of the course challenge.

Describe the critique that inspired your iteration and what you changed about your solution.

| Draw a quick sketch or prototype your good solution and insert a photo of it here.

GOOD SOLUTION
Name of the good solution

Description Product, process, service...

Key function for user Helps the user to better (functional need)...

Emotional benefit So that the user feels (emotional need)...

Your name and contact information optional

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Solution Documentation Block 3

GOOD SOLUTION DOCUMENTATION BLOCK 3

Module 8

» Define your good solution that has been leveraged by iteration.

You want to describe your good solution of the course challenge.

Describe the critique that inspired your iteration and what you changed about your solution.

Draw a quick sketch or prototype your good solution and insert a photo of it here.

GOOD SOLUTION

Name of the good solution

Description Product, process, service, ...

Key function for user Helps the user to better (functional need) ...

Emotional benefit So that the user feels (emotional need) ...

Your name and contact information optional



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Solution Documentation Block 3

GOOD SOLUTION DOCUMENTATION BLOCK 3

Module 8

» Define your good solution that has been leveraged by iteration.

You want to describe your good solution of the course challenge.

Describe the critique that inspired your iteration and what you changed about your solution.

Draw a quick sketch or prototype your good solution and insert a photo of it here.

GOOD SOLUTION

Name of the good solution

Description Product, process, service, ...

Solution Documentation Block 3

GOOD SOLUTION DOCUMENTATION BLOCK 3

Module 8

» Define your good solution that has been leveraged by iteration.

You want to describe your good solution of the course challenge.

Describe the critique that inspired your iteration and what you changed about your solution.

Disruption in relationship as tool is more powerful:

"Even greater uncertainty as to when my girlfriend can or may interrupt me."

Draw a quick sketch or prototype your good solution and insert a photo of it here.

GOOD SOLUTION

Name of the good solution

Description Product, process, service, ...

Solution Documentation Block 3

GOOD SOLUTION DOCUMENTATION BLOCK 3

Module 8

» Define your good solution that has been leveraged by iteration.

You want to describe your good solution of the course challenge.

Describe the critique that inspired your iteration and what you changed about your solution.

Disruption in relationship as tool is more powerful:
"Even greater uncertainty as to when my girlfriend can or may interrupt me."

GOOD SOLUTION

Name of the good solution
The learn investment tracker

Description Product, process, service, ...
An online tool that not only automatically tracks your learning sources, learning time, learning modes (reading, writing, thinking), and amount of non-learning moments. And it actively supports a healthy learning behaviour by rewarding positive learning breaks.

Key function for user Helps the user to better (functional need)...
It helps to have a neutral evaluation of the learning investment including a visualisation that is automatically connected to the learning result (document) for the result user. Thus partners get provided with the same information on the learning status and can actively request for a break.

Emotional benefit So that the user feels (emotional need)...
It releases her from the burden to justify her time investment and appreciation is not a matter of individual expression but has a factual tool. Further it empowers her to actively make decisions about the priorities of interruptions by her social environment. Therefore it actively supports a great work-life balance.

Draw a quick sketch or prototype your good solution and insert a photo of it here.

Your name and contact information optional
Miriam Steckl, miriam.steckl@hpi-academy.de

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HPI Hasso Plattner Institut

ITERATION

- ▶ Fail early to learn together at high speed

Iteration Exercise

Have fun
and share your results and learnings
with the community!

By the Course Coaching Team

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