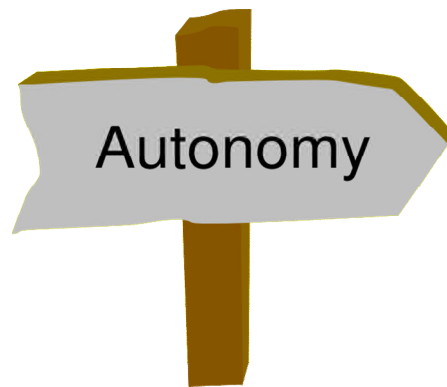


TUD Hauptseminar «Autonomic Computing»

Prof. Dr. Frank J. Furrer



«Autonomic Computing»

**Today: Seminar Day 1 [8-JUN-16]**

Hauptseminar Website:

<http://st.inf.tu-dresden.de/teaching/hs/auco16>

## Content:

1. Introduction (F.J. Furrer)
2. Presentations and Feedback (all)
3. Final Words (F.J. Furrer)

## Timing

Name	Presentation	Feedback
Furrer, Frank J.: <i>Introduction</i>	09:20 – 09:50	
Kandler, Marc	09:50 – 10:05	10:05 – 10:15
Engelmohr, Jan	10:15 – 10:30	10:30 – 10:40
Hanspach, Felix	10:40 – 10:55	10:55 – 11:05
Break	11:05 – 11:25	
Bauer, Ilja	11:25 – 11:40	11:40 – 11:50
Reusch, Anja	11:50 – 12:05	12:05 – 12:15
Furrer, Frank J.: <i>Final Comments</i>	12:15 – 12:30	
Final Discussion	12:30 – 12:40	

## Content:

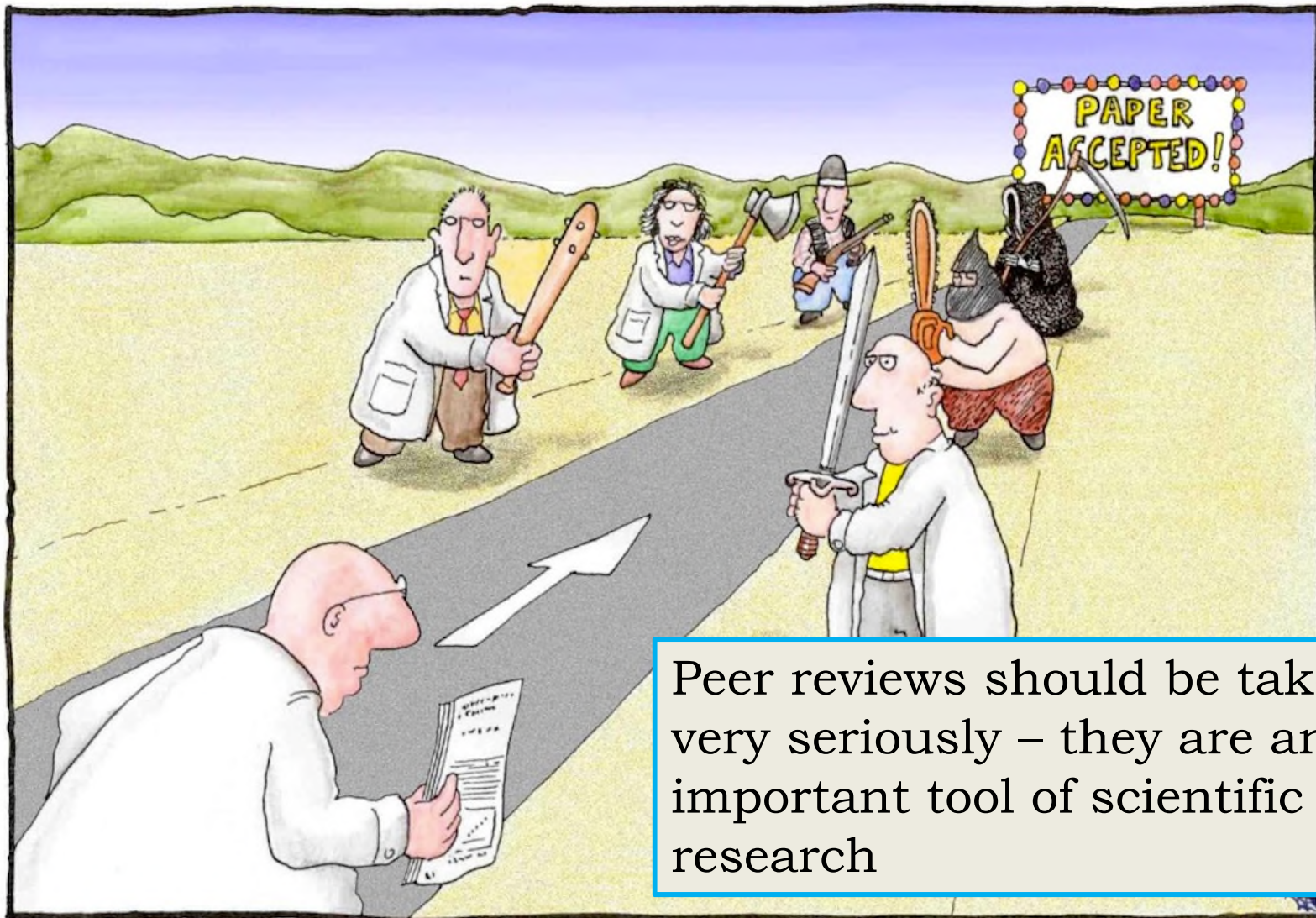
### 1. Introduction (F.J. Furrer)

---

#### 1<sup>st</sup> Round:

### Observations and Recommendations

<http://genomicenterprise.com/blog/2010/09/03>



The peer reviews were fair and helpful – *but rather short*

**Peer Evaluations: Some "Do's"**

1. Do treat the writer with courtesy and respect.
2. Do comment on the performance, not the person.
3. Do focus on how the argument is supported (or not), rather than whether you agree or disagree with it.
4. Do aim for balance and completeness in pointing out strengths and problem areas.
5. Do comment on specific examples of strengths and problem areas.
6. Do aim to help the writer see how to improve future work as well as the current draft.

**Peer Evaluations: Some "Don't's"**

1. Don't use snippy marginal comments such as "So what?" or "What's your point?"
2. Don't get into debates over unresolvable questions of individual value and belief (for example, questions relating to religion, gun control, or abortion).
3. Don't argue with the writer. Raise objections or ask for explanations only to clarify and suggest ways of strengthening the argument.
4. Don't confine your comments to mechanical details.
5. Don't make vague, global comments.
6. Don't rewrite for the writer

<http://www.mhhe.com/mayfieldpub/maner/resources/peer5.htm>  
<http://onlinelibrary.wiley.com/doi/10.1002/9780470750803.app1/pdf>

Main Observations:

Theme

Fit to AC

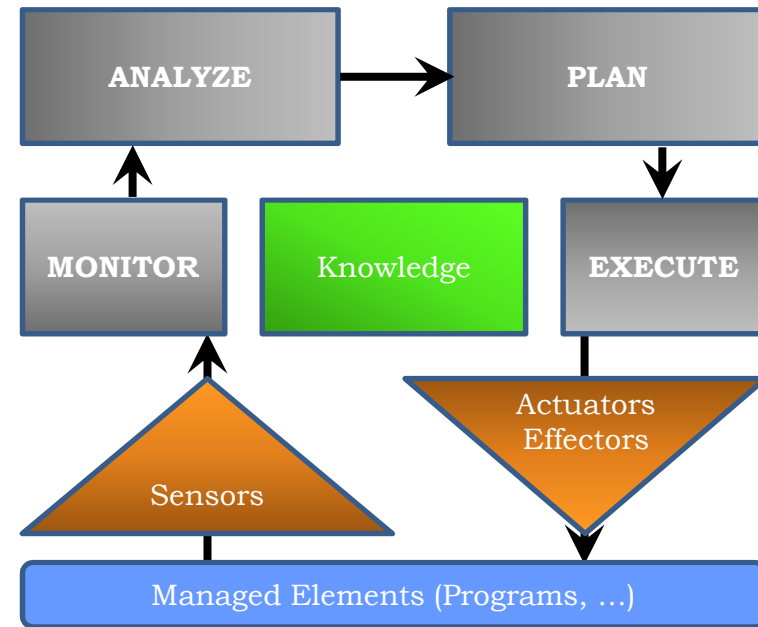
good

All themes are well-chosen and very interesting – some are quite challenging!

Excellent fit of all themes to Autonomic Computing



<http://krav.ip>





Main Observations:

Context

**improvable**

<http://www.ignitionone.com>



Context is the environment in which your reader has to see your paper

Context description is the most suitable presentation of the field of interest which then allows the focussing on the topic of the paper

Full sphere of knowledge



Topic of your paper

## Context: Example



The American and the Russian president agree on a running competition over 5 km. The *American president* clearly wins the race

The reporting in the Russian press reads: “***The Russian president ran to an excellent second place, whereas the American president only finished second last in the race***”.

Without knowing the **context** that only 2 competitors ran the race, the meaning of the information is completely distorted – people implicitly assume that the race had 50 ... 100 contestants!

Main Observations:

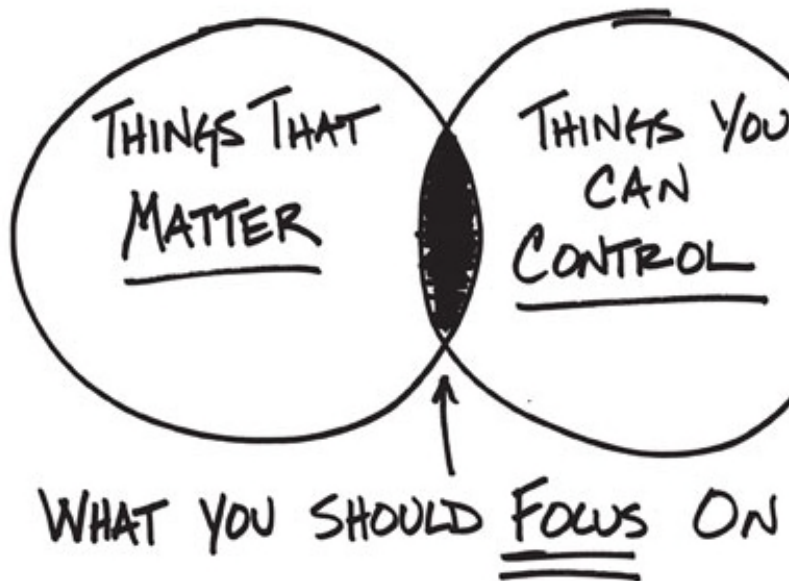
**improvable**

**Focus**

Restrict yourself clearly and consistently to a well-defined topic

**Precision**

Express exactly and unambiguously what you want to communicate



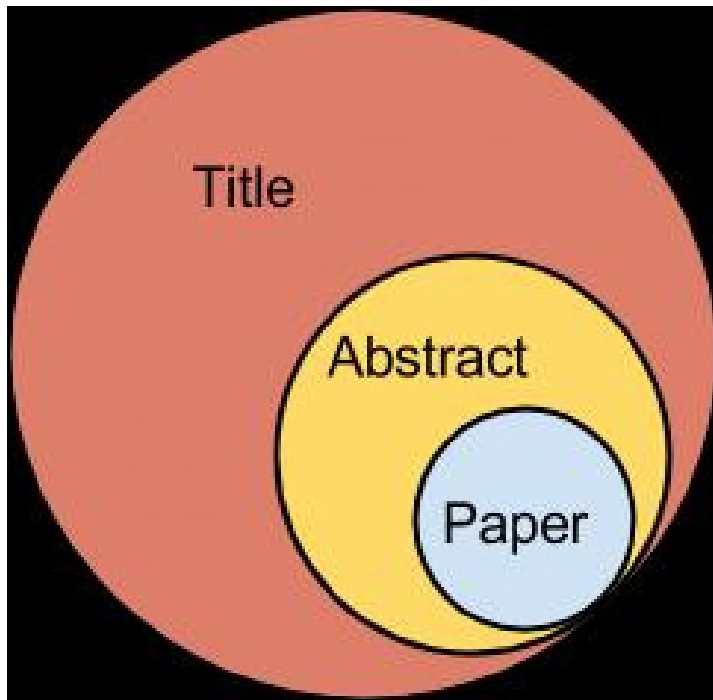
BEHAVIORGAP.COM



<http://blog.wika.de>

© Zelfit - Fotolia.com

<http://blogs.nature.com/naturejobs/2014/11/03>



## Title

**improvable**

General observation:

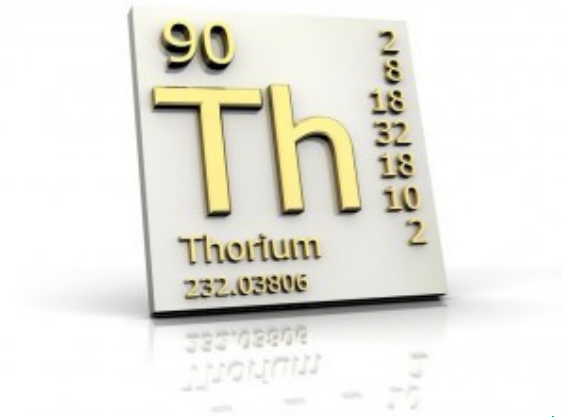
The titles were **not** sufficiently «seducing» and promising

Good academic titles reveal not only the topic of the paper but some idea of your specific approach, argument, and area of discussion

A great academic title should tell your readers as much as possible about your paper's central claim and its significance

*How do I write a great title for my academic essay?* University of Michigan – Sweetland Center for Writing  
<http://www.lsa.umich.edu/UMICH/sweetland/Home/Undergraduate/Writing%20Guides/HowDoIWriteaGreatTitle.pdf>

## Message ⇔ Title



### Audience: YOU!

- *Background:* mathematical-physical-engineering education
- *Prior knowledge:* basic nuclear physics
- *Expectations:* Possible solution to world's energy problem?
- *Reason for attendance:* critical assessment, gain of knowledge

### Key message:

⇔ At the same time a wonderful title

«THORIUM – The Green Energy Source of the Future»

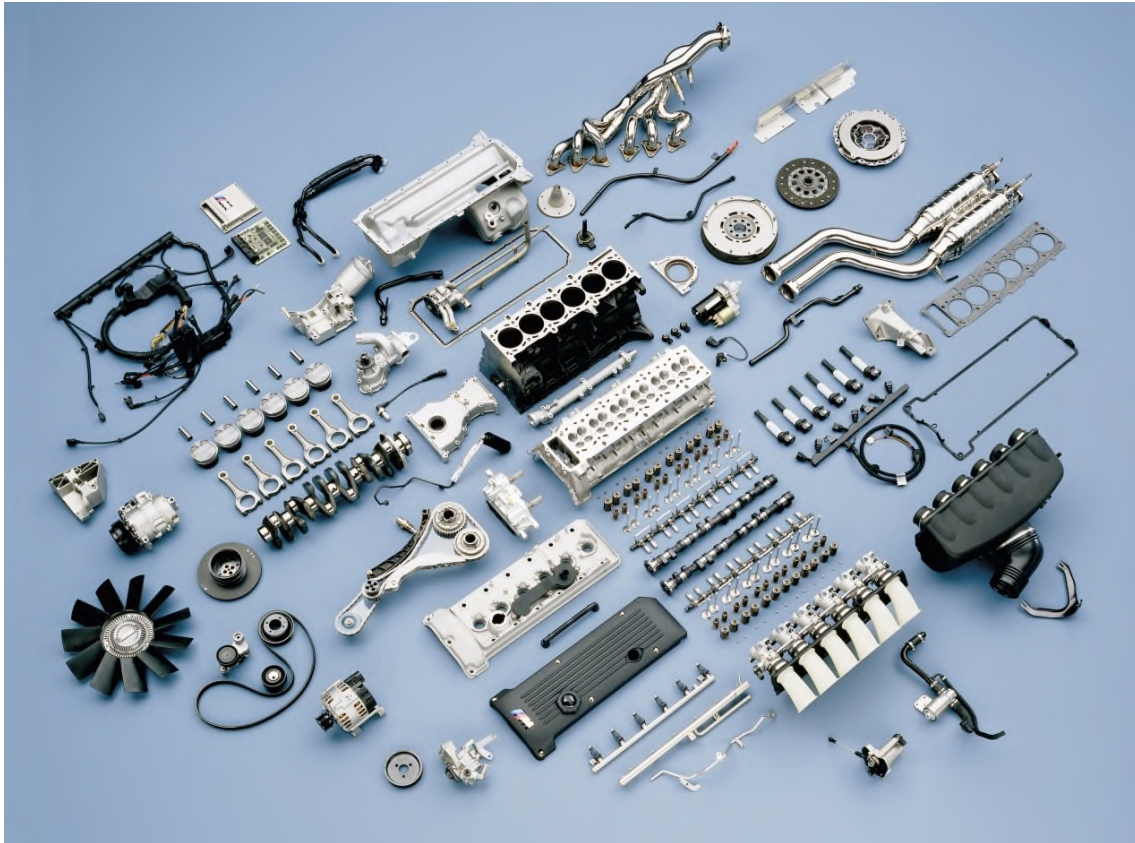
Richard Martin: **Superfuel – Thorium, the green energy source of the future.**

Palgrave MacMillan Publishers, New York, USA, 2012. ISBN 978-0-230-11647-4



improvable

<http://newboldbmw.com/BMWParts.aspx>



## Concepts

- ✓ Some concepts are ill defined or not defined at all
- ✓ Are really all introduced concepts necessary for the storyline? ⇐ Repeated checks & elimination necessary

**improvable**

<http://newartcolorz.com/cat/4/210522.html>



- **State of the Art**
- **Message of the Paper**

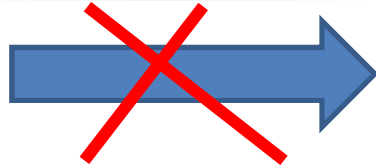
✓ The state of the art: a) what is the current knowledge?  
b) which is the related literature?

✓ Message of the paper: a) what is the new knowledge?  
b) which is the contribution of the author? c) why is it important? **⇐ NOT in the conclusions, but a separate chapter before**



1

**Storyline**  
(= Logical, consistent, complete sequence of thoughts)



2

**Paper**  
(= Interesting, well-written, valuable sequence of sections)

**improvable**

**A paper based on a weak storyline will NEVER be good**



**improvable**

<https://lwallenberg2.files.wordpress.com>



Use proofing tools!

Language

- German
- English



<http://www.whitesmoke.com>

... and: You all *underestimated* the required time !



<https://www.dutimes.com>

Consequence:

- Stress
- Dissatisfaction with yourself
- Unsatisfactory result
- Bad conscience
- Unhappy teacher 😞




What can you do against time-stress?

**Planning !**

**Plan 1:** Storyline  $\Leftarrow$  *Conceptual plan of **content***

**Plan 2:** Time-plan – *Chapter/ Section  $\Leftrightarrow$  **date***





Die meiste Zeit geht  
dadurch verloren,  
dass man nicht zu  
Ende denkt

Alfred Herrhausen (1930-1989)

## Content:

# 2. Presentations and Feedback

---

## 1<sup>st</sup> Round:

## Procedure

Presentation  
(15 mins)



Audience  
Feedback  
(10 mins)

FEEDBACK: Each participant:

1. One positive comment
2. One improvement comment

<b>Storyline</b>	• Logical	Excellent	<input type="checkbox"/>
	• Consistent	Good	<input type="checkbox"/>
	• Attractive	Improvable	<input type="checkbox"/>
<b>Illustrations Pictures</b>	• Clear	Excellent	<input type="checkbox"/>
	• Fitting/Adequate	Good	<input type="checkbox"/>
	• Granularity	Improvable	<input type="checkbox"/>
<b>Animation</b>	• Power of Expression	Excellent	<input type="checkbox"/>
	• Support of Speaker	Good	<input type="checkbox"/>
	• Focussed (emphasizing the message of the slide)	Improvable	<input type="checkbox"/>
<b>Density</b>	• Speed	Excellent	<input type="checkbox"/>
	• Unnecessary effects	Good	<input type="checkbox"/>
	• Timing	Improvable	<input type="checkbox"/>
<b>Delivery</b>	• Too dense (per slide or per time unit)	Excellent	<input type="checkbox"/>
	• Too slow (more material per slide or per time unit)	Good	<input type="checkbox"/>
	• Balance of slides	Improvable	<input type="checkbox"/>
<b>Delivery</b>	• Bullet point lists	Excellent	<input type="checkbox"/>
	• Personal style	Good	<input type="checkbox"/>
	• Interaction with the audience	Improvable	<input type="checkbox"/>
<b>Delivery</b>	• Complementary speech/illustrations	Good	<input type="checkbox"/>
		Improvable	<input type="checkbox"/>

<b>Storyline</b>	<ul style="list-style-type: none"> <li>• Logical</li> <li>• Consistent</li> <li>• Attractive</li> <li>• Clear</li> </ul>	<p>Excellent <input type="checkbox"/></p> <p>Good <input type="checkbox"/></p> <p>Improvable <input type="checkbox"/></p>	
<b>Illustrations Pictures</b>	<ul style="list-style-type: none"> <li>• Fitting/Adequate</li> <li>• Granularity</li> <li>• Power of Expression</li> <li>• Support of Speaker</li> </ul>	<p>Excellent <input type="checkbox"/></p> <p>Good <input type="checkbox"/></p> <p>Improvable <input type="checkbox"/></p>	
<b>Animation</b>	<ul style="list-style-type: none"> <li>• Focussed (message of the slide)</li> <li>• Speed</li> <li>• Unnecessary effects</li> <li>• Timing</li> </ul>	<p>Excellent <input type="checkbox"/></p> <p>Good <input type="checkbox"/></p> <p>Improvable <input type="checkbox"/></p>	
<b>Density</b>	<ul style="list-style-type: none"> <li>• Too high</li> <li>• Too low</li> <li>• Balance of slides</li> <li>• Bullet point lists</li> </ul>	<p>Excellent <input type="checkbox"/></p> <p>Good <input type="checkbox"/></p> <p>Improvable <input type="checkbox"/></p>	
<b>Delivery</b>	<ul style="list-style-type: none"> <li>• Personal style</li> <li>• Interaction with the audience</li> <li>• Complementary speech/illustrations</li> </ul>	<p>Excellent <input type="checkbox"/></p> <p>Good <input type="checkbox"/></p> <p>Improvable <input type="checkbox"/></p>	

## Timing

Name	Presentation	Feedback
Furrer, Frank J.: <i>Introduction</i>	09:20 – 09:50	
Kandler, Marc	09:50 – 10:05	10:05 – 10:15
Engelmohr, Jan	10:15 – 10:30	10:30 – 10:40
Hanspach, Felix	10:40 – 10:55	10:55 – 11:05
Break	11:05 – 11:25	
Bauer, Ilja	11:25 – 11:40	11:40 – 11:50
Reusch, Anja	11:50 – 12:05	12:05 – 12:15
Furrer, Frank J.: <i>Final Comments</i>	12:15 – 12:30	
Final Discussion	12:30 – 12:40	



# What is the sure death of a good presentation ?

<http://info.everywoman.com>

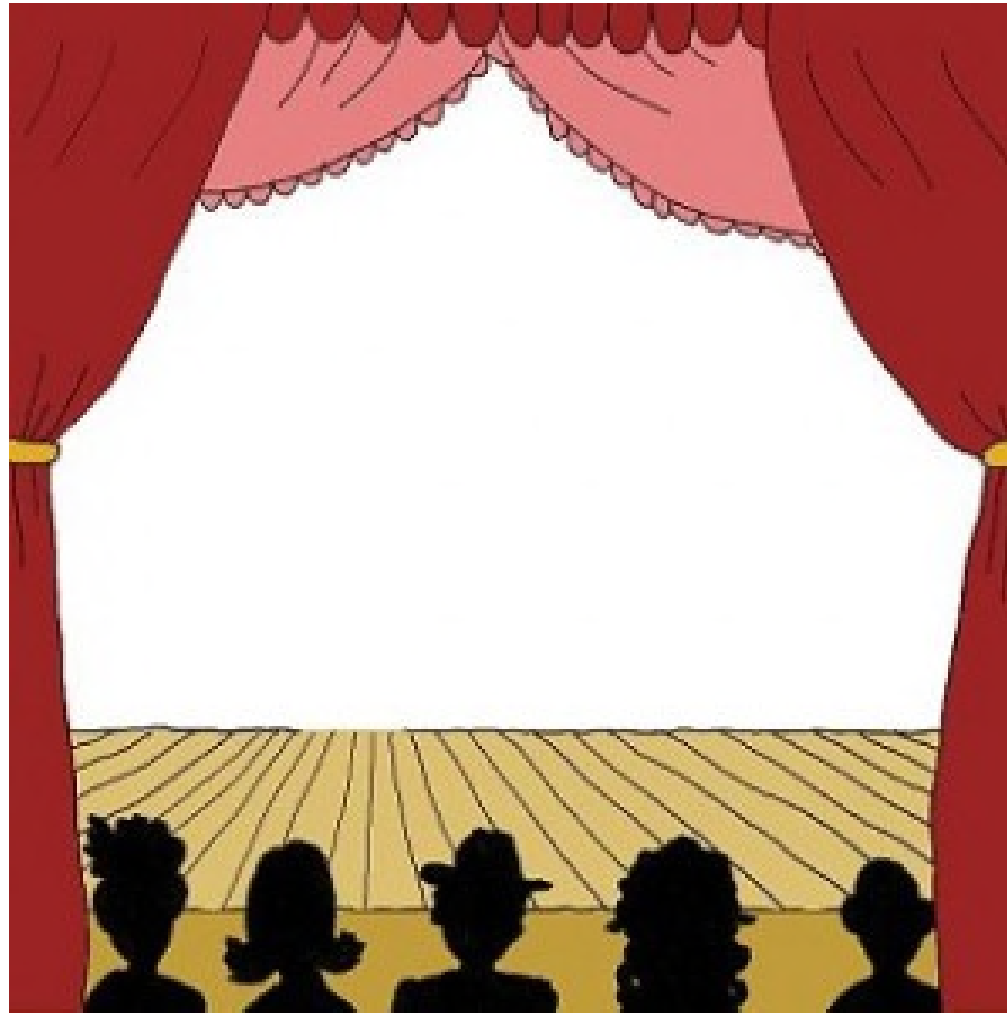


**Time overrun !**



<http://www.wfs.org>

<http://www.ioannamartin.tv/inspiration/will-you-ever-meet-your-ideal-client/>



... the stage is yours!

	Name	Presentation	Feedback
	Marc Kandler	09:50 – 10:05	10:05 – 10:15
<b>Storyline</b>	<ul style="list-style-type: none"> <li>• Logical</li> <li>• Consistent</li> <li>• Attractive</li> <li>• Clear</li> </ul>	<p>Excellent <input checked="" type="checkbox"/></p> <p>Good <input type="checkbox"/></p> <p>Improvable <input type="checkbox"/></p>	
<b>Illustrations Pictures</b>	<ul style="list-style-type: none"> <li>• Fitting/Adequate</li> <li>• Granularity</li> <li>• Power of Expression</li> <li>• Support of Speaker</li> </ul>	<p>Excellent <input checked="" type="checkbox"/></p> <p>Good <input type="checkbox"/></p> <p>Improvable <input type="checkbox"/></p>	
<b>Animation</b>	<ul style="list-style-type: none"> <li>• Focussed (message of the slide)</li> <li>• Speed</li> <li>• Unnecessary effects</li> <li>• Timing</li> </ul>	<p>Excellent <input type="checkbox"/></p> <p>Good <input checked="" type="checkbox"/></p> <p>Improvable <input type="checkbox"/></p>	
<b>Density</b>	<ul style="list-style-type: none"> <li>• Too high</li> <li>• Too low</li> <li>• Balance of slides</li> <li>• Bullet point lists</li> </ul>	<p>Excellent <input checked="" type="checkbox"/></p> <p>Good <input type="checkbox"/></p> <p>Improvable <input type="checkbox"/></p>	
<b>Delivery</b>	<ul style="list-style-type: none"> <li>• Personal style</li> <li>• Interaction with the audience</li> <li>• Complementary speech/illustrations</li> </ul>	<p>Excellent <input type="checkbox"/></p> <p>Good <input checked="" type="checkbox"/></p> <p>Improvable <input type="checkbox"/></p>	

Name	Presentation	Feedback
Jan Engelmohr	10:15 – 10:30	10:30 – 10:40

<b>Storyline</b>	<ul style="list-style-type: none"> <li>• Logical</li> <li>• Consistent</li> <li>• Attractive</li> <li>• Clear</li> </ul>	<p>Excellent <input type="checkbox"/></p> <p>Good <input checked="" type="checkbox"/></p> <p>Improvable <input type="checkbox"/></p>
<b>Illustrations Pictures</b>	<ul style="list-style-type: none"> <li>• Fitting/Adequate</li> <li>• Granularity</li> <li>• Power of Expression</li> <li>• Support of Speaker</li> </ul>	<p>Excellent <input type="checkbox"/></p> <p>Good <input type="checkbox"/></p> <p>Improvable <input checked="" type="checkbox"/></p>
<b>Animation</b>	<ul style="list-style-type: none"> <li>• Focussed (message of the slide)</li> <li>• Speed</li> <li>• Unnecessary effects</li> <li>• Timing</li> </ul>	<p>Excellent <input type="checkbox"/></p> <p>Good <input checked="" type="checkbox"/></p> <p>Improvable <input type="checkbox"/></p>
<b>Density</b>	<ul style="list-style-type: none"> <li>• Too high</li> <li>• Too low</li> <li>• Balance of slides</li> <li>• Bullet point lists</li> </ul>	<p>Excellent <input type="checkbox"/></p> <p>Good <input type="checkbox"/></p> <p>Improvable <input checked="" type="checkbox"/></p>
<b>Delivery</b>	<ul style="list-style-type: none"> <li>• Personal style</li> <li>• Interaction with the audience</li> <li>• Complementary speech/illustrations</li> </ul>	<p>Excellent <input type="checkbox"/></p> <p>Good <input checked="" type="checkbox"/></p> <p>Improvable <input type="checkbox"/></p>

	<b>Name</b>	<b>Presentation</b>	<b>Feedback</b>	
	Felix Hanspach	10:40 – 10:55	10:55 – 11:05	
<b>Storyline</b>	<ul style="list-style-type: none"> <li>• Logical</li> <li>• Consistent</li> <li>• Attractive</li> <li>• Clear</li> </ul>	<p>Excellent <input type="checkbox"/></p> <p>Good <input checked="" type="checkbox"/></p> <p>Improvable <input type="checkbox"/></p>		
<b>Illustrations Pictures</b>	<ul style="list-style-type: none"> <li>• Fitting/Adequate</li> <li>• Granularity</li> <li>• Power of Expression</li> <li>• Support of Speaker</li> </ul>	<p>Excellent <input checked="" type="checkbox"/></p> <p>Good <input type="checkbox"/></p> <p>Improvable <input type="checkbox"/></p>		
<b>Animation</b>	<ul style="list-style-type: none"> <li>• Focussed (message of the slide)</li> <li>• Speed</li> <li>• Unnecessary effects</li> <li>• Timing</li> </ul>	<p>Excellent <input checked="" type="checkbox"/></p> <p>Good <input type="checkbox"/></p> <p>Improvable <input type="checkbox"/></p>		
<b>Density</b>	<ul style="list-style-type: none"> <li>• Too high</li> <li>• Too low</li> <li>• Balance of slides</li> <li>• Bullet point lists</li> </ul>	<p>Excellent <input type="checkbox"/></p> <p>Good <input checked="" type="checkbox"/></p> <p>Improvable <input type="checkbox"/></p>		
<b>Delivery</b>	<ul style="list-style-type: none"> <li>• Personal style</li> <li>• Interaction with the audience</li> <li>• Complementary speech/illustrations</li> </ul>	<p>Excellent <input type="checkbox"/></p> <p>Good <input checked="" type="checkbox"/></p> <p>Improvable <input type="checkbox"/></p>		

	Name	Presentation	Feedback
	Ilja Bauer	11:25 -11:40	11:40 – 11:50
<b>Storyline</b>	<ul style="list-style-type: none"> <li>• Logical</li> <li>• Consistent</li> <li>• Attractive</li> <li>• Clear</li> </ul>	<p>Excellent <input checked="" type="checkbox"/></p> <p>Good <input type="checkbox"/></p> <p>Improvable <input type="checkbox"/></p>	
<b>Illustrations Pictures</b>	<ul style="list-style-type: none"> <li>• Fitting/Adequate</li> <li>• Granularity</li> <li>• Power of Expression</li> <li>• Support of Speaker</li> </ul>	<p>Excellent <input checked="" type="checkbox"/></p> <p>Good <input type="checkbox"/></p> <p>Improvable <input type="checkbox"/></p>	
<b>Animation</b>	<ul style="list-style-type: none"> <li>• Focussed (message of the slide)</li> <li>• Speed</li> <li>• Unnecessary effects</li> <li>• Timing</li> </ul>	<p>Excellent <input checked="" type="checkbox"/></p> <p>Good <input type="checkbox"/></p> <p>Improvable <input type="checkbox"/></p>	
<b>Density</b>	<ul style="list-style-type: none"> <li>• Too high</li> <li>• Too low</li> <li>• Balance of slides</li> <li>• Bullet point lists</li> </ul>	<p>Excellent <input type="checkbox"/></p> <p>Good <input type="checkbox"/></p> <p>Improvable <input checked="" type="checkbox"/></p>	
<b>Delivery</b>	<ul style="list-style-type: none"> <li>• Personal style</li> <li>• Interaction with the audience</li> <li>• Complementary speech/illustrations</li> </ul>	<p>Excellent <input type="checkbox"/></p> <p>Good <input checked="" type="checkbox"/></p> <p>Improvable <input type="checkbox"/></p>	

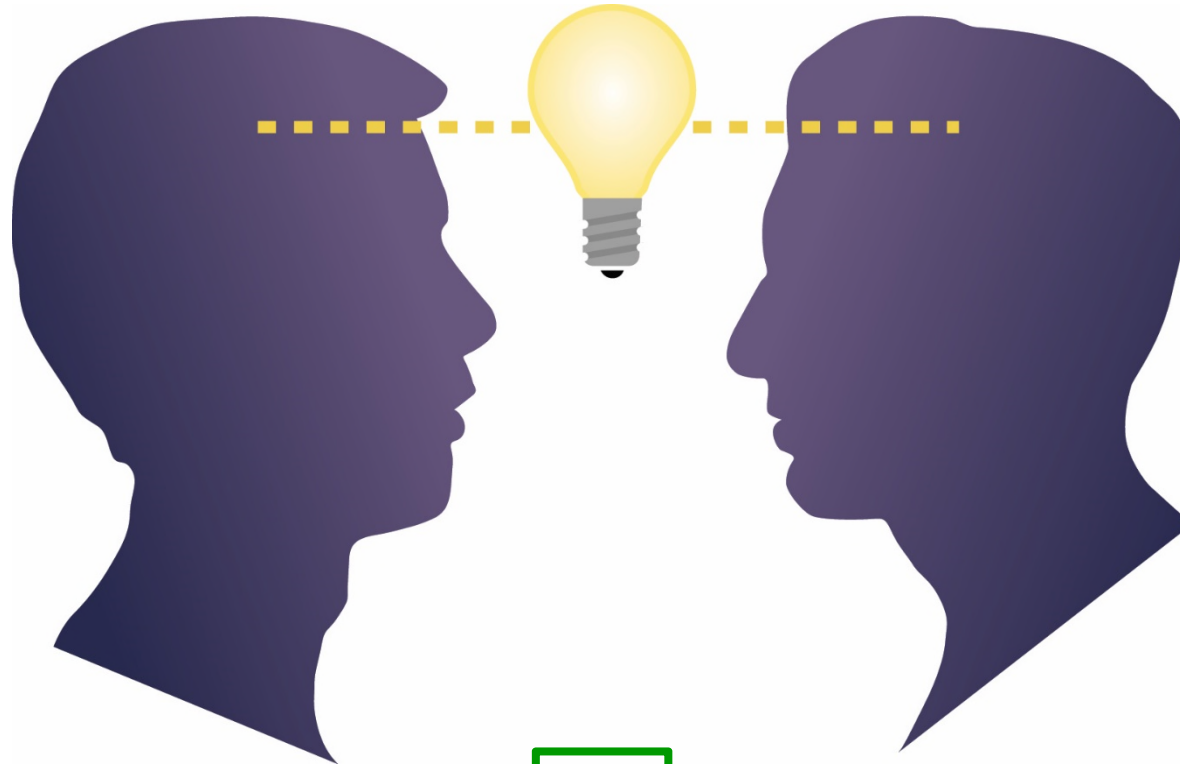
	<b>Name</b>	<b>Presentation</b>	<b>Feedback</b>	
	Anja Reusch	11:50 – 12:05	12:05 – 12:15	
<b>Storyline</b>	<ul style="list-style-type: none"> <li>• Logical</li> <li>• Consistent</li> <li>• Attractive</li> <li>• Clear</li> </ul>	<p>Excellent <input checked="" type="checkbox"/></p> <p>Good <input type="checkbox"/></p> <p>Improvable <input type="checkbox"/></p>		
<b>Illustrations Pictures</b>	<ul style="list-style-type: none"> <li>• Fitting/Adequate</li> <li>• Granularity</li> <li>• Power of Expression</li> <li>• Support of Speaker</li> </ul>	<p>Excellent <input type="checkbox"/></p> <p>Good <input checked="" type="checkbox"/></p> <p>Improvable <input type="checkbox"/></p>		
<b>Animation</b>	<ul style="list-style-type: none"> <li>• Focussed (message of the slide)</li> <li>• Speed</li> <li>• Unnecessary effects</li> <li>• Timing</li> </ul>	<p>Excellent <input type="checkbox"/></p> <p>Good <input type="checkbox"/></p> <p>Improvable <input checked="" type="checkbox"/></p>		
<b>Density</b>	<ul style="list-style-type: none"> <li>• Too high</li> <li>• Too low</li> <li>• Balance of slides</li> <li>• Bullet point lists</li> </ul>	<p>Excellent <input type="checkbox"/></p> <p>Good <input checked="" type="checkbox"/></p> <p>Improvable <input type="checkbox"/></p>		
<b>Delivery</b>	<ul style="list-style-type: none"> <li>• Personal style</li> <li>• Interaction with the audience</li> <li>• Complementary speech/illustrations</li> </ul>	<p>Excellent <input type="checkbox"/></p> <p>Good <input checked="" type="checkbox"/></p> <p>Improvable <input type="checkbox"/></p>		

Content:

3. Final Words



Papers and Presentations do *transport* ideas



<http://ii.library.jhu.edu>

Be:

• focussed

• precise

• interesting

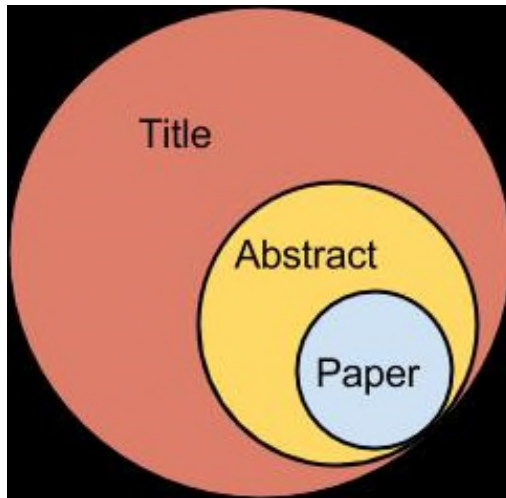
• readable

• direct

3 areas of improvement:

## Title

<http://blogs.nature.com/naturejobs/2014/11/03>



... catching  
... promising  
... seducing

## Storyline

<http://www.hans-und-renate.de/2011/09>



... logical  
... "simple"  
... convincing

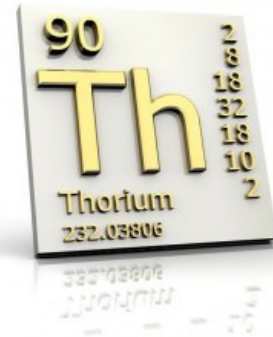
## Unnecessary Concepts



<http://www.deviantart.com/morelikethis>

... minimize  
... define  
... consistency

## Graphical Storyline Check



### Key message:

«THORIUM  
– The Green Energy Source of the Future»

Consequences and Dangers  
of Uranium-Technology

- Radioactive waste
- Nuclear accidents
- Plutonium (weapons)

Need for a new, clean and safe  
energy generation technology

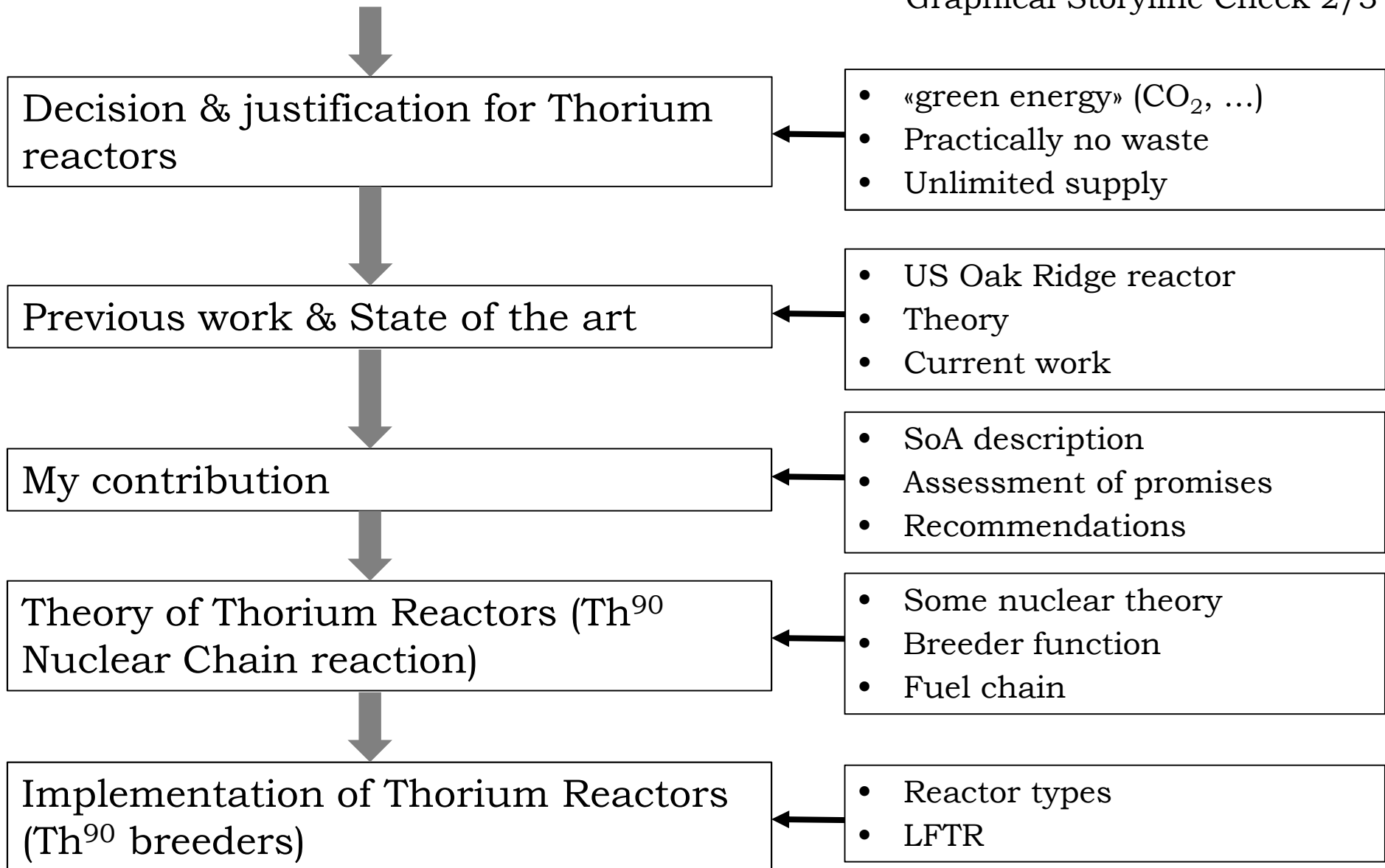
- environment
- zero accident potential
- Large scale affordability

Survey and assessment of energy  
generation technologies

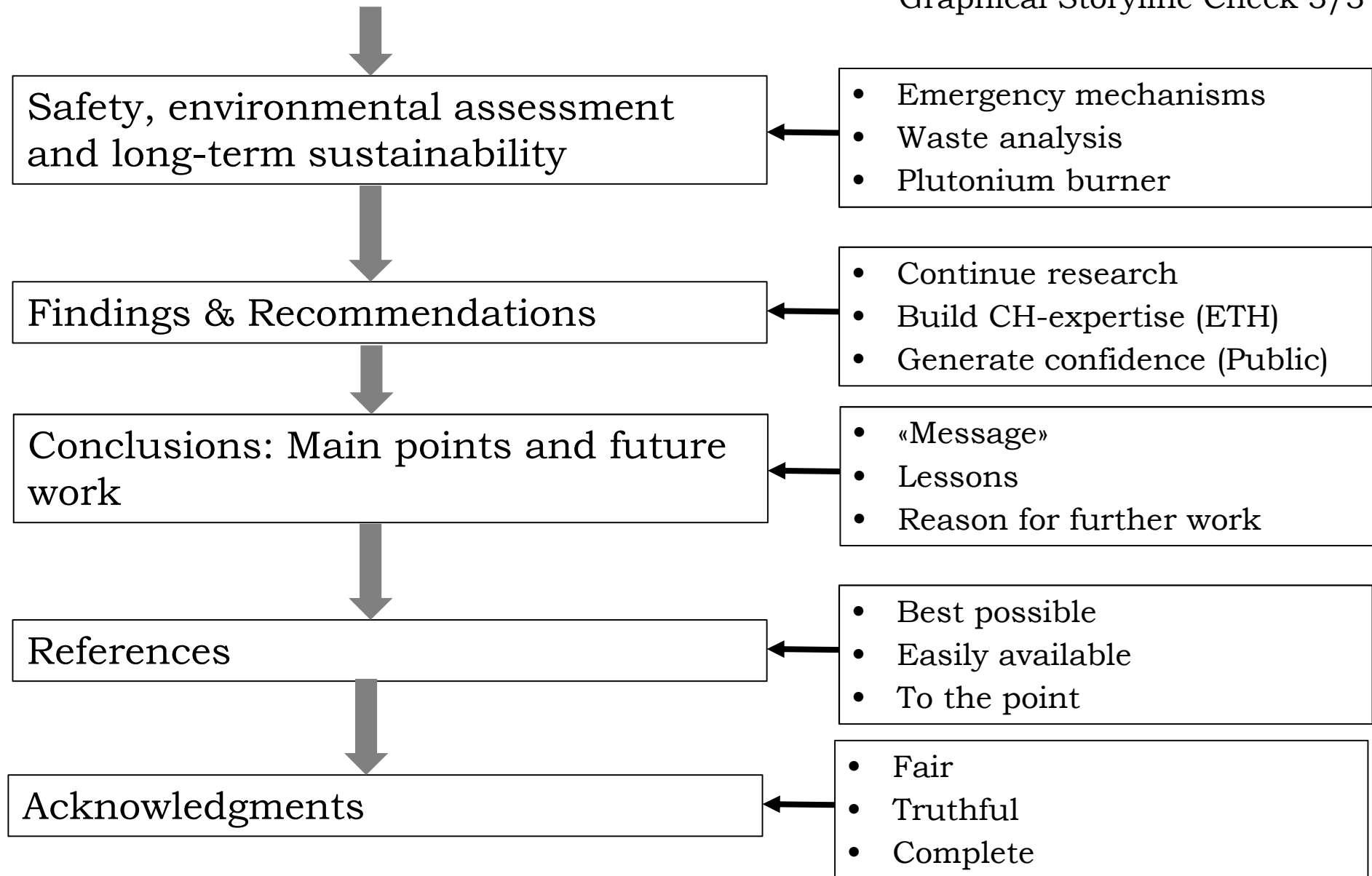
- «green energy»
- Nature protection
- Long-term sustainability

Logical line of thought

## Graphical Storyline Check 2/3



## Graphical Storyline Check 3/3



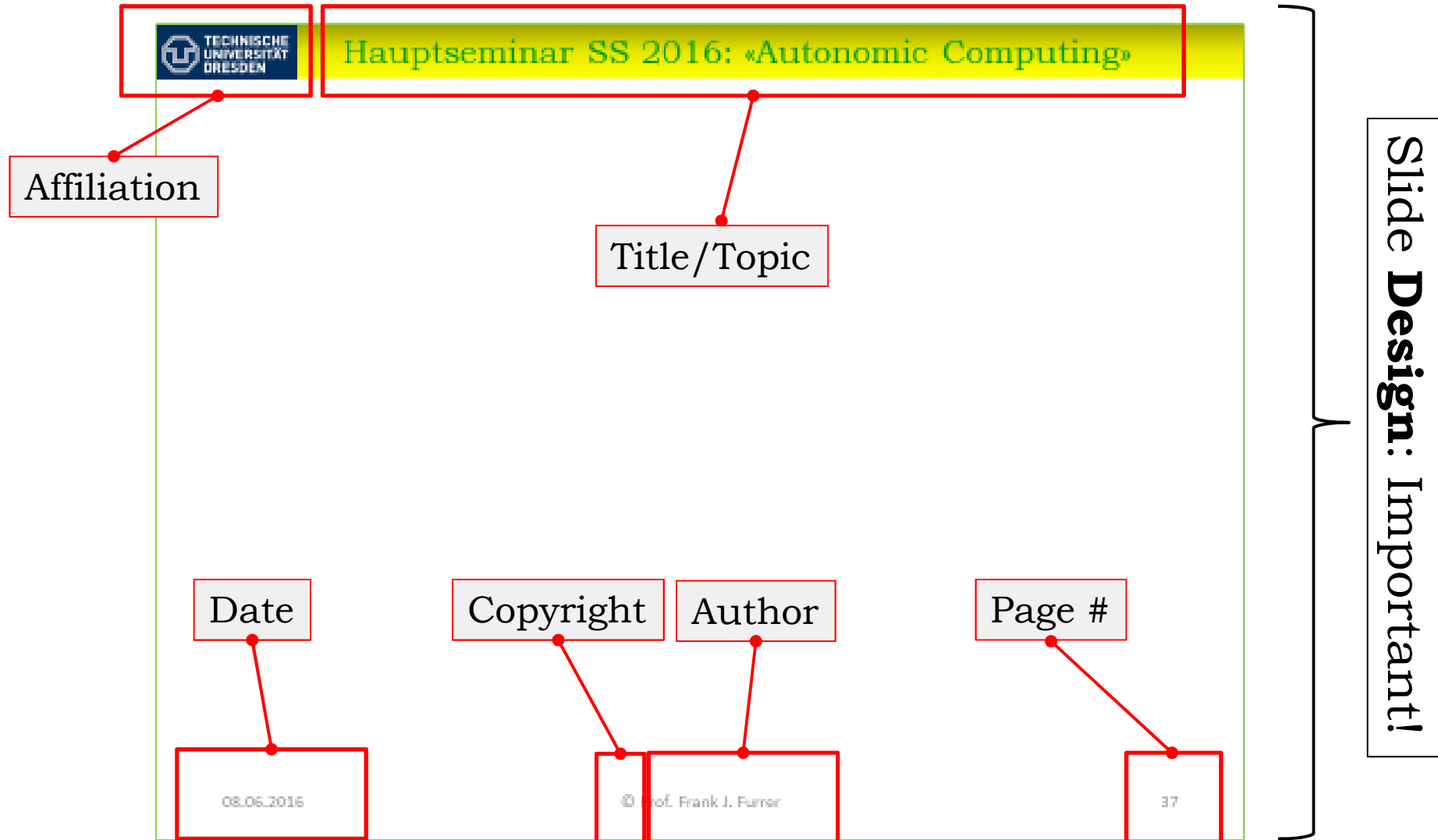
## Eliminate unnecessary concepts

<http://www.pinstopin.com/sieve/>



- Mark all **concepts** in your paper
- Is each concept really necessary?  
⇒ if not, eliminate the ~~concept~~
- Are all the concepts well and precisely defined? ⇐ *ambiguity*?

## Format of the Slides $\Rightarrow$ Navigation Help!





## Next Steps

New dates

Deliver 2 <sup>nd</sup> , improved draft of your paper to your peer reviewers	Friday, <b>June 24</b> , 2016	e-mail your paper: <ul style="list-style-type: none"> <li>• Peer reviewers</li> <li>• <a href="mailto:frank.j.furrer@bluewin.ch">frank.j.furrer@bluewin.ch</a></li> <li>• <a href="mailto:Georg.Pueschel1@mailbox.tu-dresden.de">Georg.Pueschel1@mailbox.tu-dresden.de</a></li> </ul>
Feedback from Reviewers	Monday <b>July 4</b> , 2016	By e-mail from: <ul style="list-style-type: none"> <li>• The peer reviewers</li> <li>• <a href="mailto:frank.j.furrer@bluewin.ch">frank.j.furrer@bluewin.ch</a></li> <li>• <a href="mailto:Georg.Pueschel1@mailbox.tu-dresden.de">Georg.Pueschel1@mailbox.tu-dresden.de</a></li> </ul>
<b>2<sup>nd</sup> Seminar Day</b>	<b>Wednesday, July 13, 2016: 09:20 – 10:50/11:10 – 12:40 (2. + 3. DS)</b> <b>Room APB/INF 2101</b>	<ul style="list-style-type: none"> <li>• 2<sup>nd</sup> participants presentation</li> <li>• Peer discussions, Feedback on style and content</li> </ul>



Excellent, motivated work so far!  
I like it a lot.



Feedback from your side?