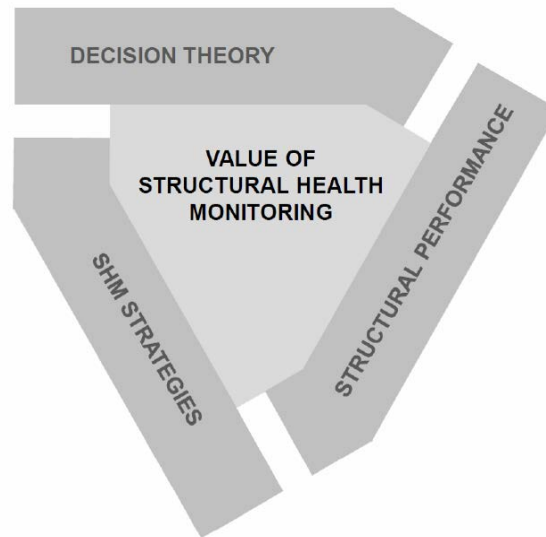


# Innovation Committee

- Recommendations -



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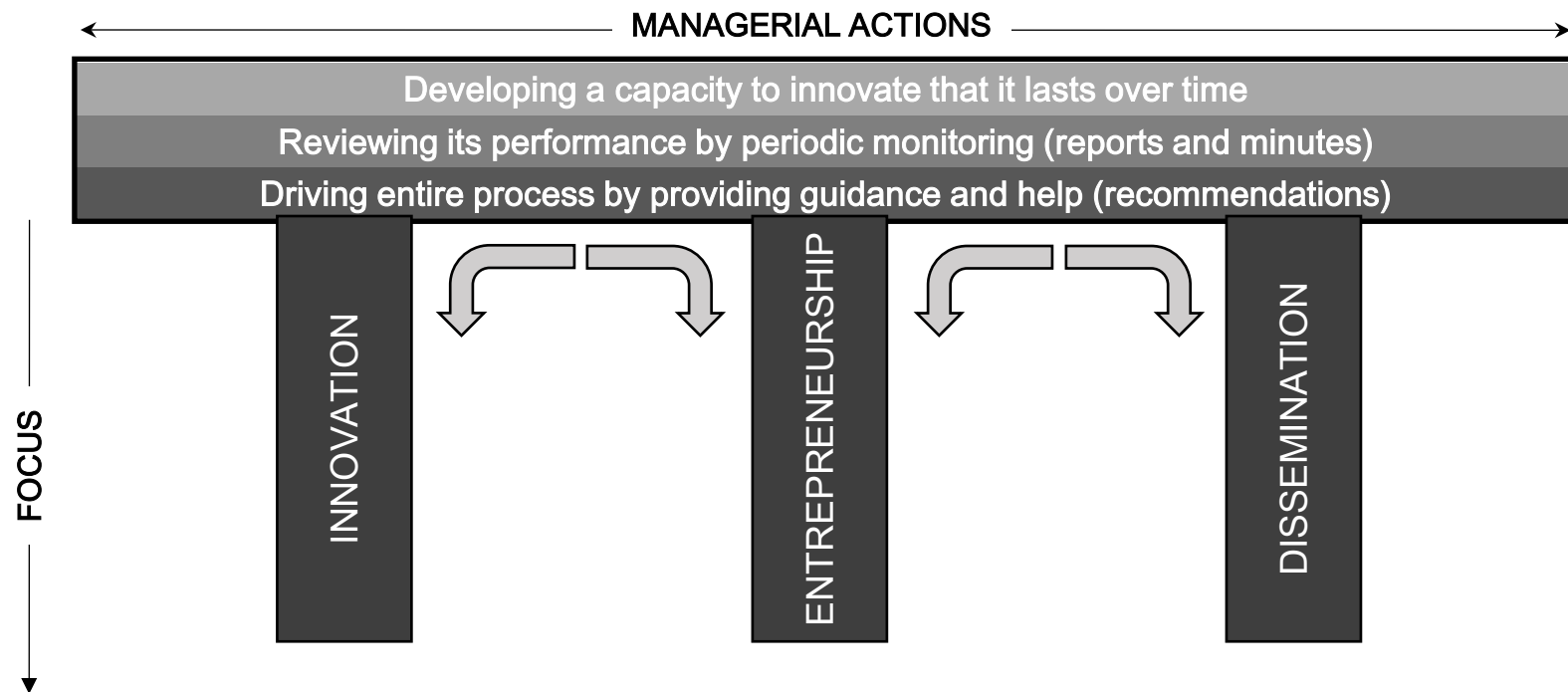
- ❑ Innovation Committee
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# 1. Innovation Committee

## Focus & managerial actions

- ❑ The Innovation Committee advises the Steering Committee in conjunction with the Advisory Board in regard to the dissemination of innovations



## 2. Application to the COST Action TU1402

Innovation pillar – Possible recommended activities (1<sup>st</sup> Workshop, Denmark)

Activities	Possible approaches
Inspire teams to innovate	<ul style="list-style-type: none"><li>• By presenting successful cases related to SHM applications in infrastructures and having a potential link with the quantification of the Value of Information (VoI)</li><li>• By presenting exciting cases to inspire people</li></ul>
Raise innovating culture	<ul style="list-style-type: none"><li>• By presenting challenges related to case studies, i.e. what can be done to improve the usefulness of SHM in those cases</li><li>• By arranging brainstorming sessions, during workshops, focussing on ideas/approaches that might lead to solutions for those real cases</li></ul>
Get industry feedback	<ul style="list-style-type: none"><li>• By bringing the infrastructure managers experience into the problem formulation.</li><li>• By highlighting their perspective about the problems they are currently facing</li><li>• How they see SHM information as a solution (e.g. questionnaires)</li></ul>
Focus on industry needs	<ul style="list-style-type: none"><li>• By formulating an industrial problem based on SHM</li><li>• Applied research</li></ul>
Competitions	<ul style="list-style-type: none"><li>• By promoting prizes for the best idea that is able to answer properly a specific problem (e.g. best paper, best short scientific mission, best oral presentation)</li></ul>
Promote activities	<ul style="list-style-type: none"><li>• Brainstorming sessions, Innovation days, patent seminars, others</li></ul>

## 2. Application to the COST Action TU1402

Entrepreneurship – Possible recommended activities (1<sup>st</sup> Workshop, Denmark)

Activities	Possible approaches
Entrepreneurship lecture series	<ul style="list-style-type: none"><li>• By setting an international panel of entrepreneurs.</li><li>• By giving the opportunity to discuss challenges and solutions to creating an entrepreneur-friendly business culture.</li></ul>
Entrepreneur fair	<ul style="list-style-type: none"><li>• By involving entrepreneurs, investors and innovators to present their work.</li></ul>
<i>Chasing</i> markets	<ul style="list-style-type: none"><li>• By analysing the potential of the best ideas previously presented (innovation pillar) in different markets (e.g. buildings, bridges, tunnels, ports, wind turbines and offshore structures).</li></ul>
Create value	<ul style="list-style-type: none"><li>• By encouraging short scientific missions to be hosted in the industrial partners and to focus on specific problems they are currently analysing.</li><li>• By exploring potential ventures new business opportunities.</li></ul>
Projects	<ul style="list-style-type: none"><li>• By using the most suitable formulated problems as input in the preparation of proposals for funding (e.g. H2020).</li><li>• By exploring different possibilities (e.g. private funding, public funding, national/international).</li></ul>



## 2. Application to the COST Action TU1402

Dissemination – Possible recommended activities (1<sup>st</sup> Workshop, Denmark)

Activities	Possible approaches
Disseminate the knowledge	<ul style="list-style-type: none"><li>• By sharing the outcomes with the scientific community (e.g. guidelines, journal and conference papers) and the general public, including non-specialist audience.</li><li>• Some potential channels for the dissemination targeting non-specialist audience: Website, Wikipedia, TED, Linkedin, Television.</li></ul>
Monitor knowledge use	<ul style="list-style-type: none"><li>• By assessing the degree of the dissemination based on quantitative parameters (e.g. citations/downloads of journal/conference papers, number of views/downloads of presentations).</li><li>• By following the different visitor profile (e.g. private companies, public sector, students)</li></ul>
Evaluate impact	<ul style="list-style-type: none"><li>• By evaluating how the action has changed paradigms in different environments (e.g. lecturing in the university, new products in the market, job creation)</li></ul>



# 3. What has been done so far

## Innovation pillar

- ❑ Activities during workshops ⇒ **Brainstorming sessions**
  - Generic framework for Vol in SHM (WG1, in the 2<sup>nd</sup> workshop Istanbul)
  - Influence diagram/flowchart (WG2 and WG3, in the 2<sup>nd</sup> workshop Istanbul)
  
- ❑ Inspire teams to innovate ⇒ **successful cases related to SHM applications in infrastructures**
  - “TU1402 Monitoring Case Studies Relevant cases for the proof of concept” (Helmut Wenzel, in the 1<sup>st</sup> workshop in Copenhagen)
  
- ❑ Get feedback ⇒ **Surveys**
  - Questionnaire on the value of SHM (after the 2<sup>nd</sup> workshop in Istanbul)



# 3. What has been done so far

## Entrepreneurship pillar

- ❑ Involvement of entrepreneurs, investors and innovators to present their work ⇒ **Entrepreneurship lectures**
  - “SHM with fiber optic sensors at AIMEN technology center”  
(Ander Zornoza, in the 1<sup>st</sup> workshop Copenhagen)
  
- ❑ Get industry feedback ⇒ **their perspective on problems they are currently facing and SHM can help**
  - “Monitoring needs ageing infrastructure”  
(Leo Klatter, in the 2<sup>nd</sup> workshop in Istanbul)





# 3. What has been done so far

## Dissemination pillar

❑ Online information ⇒ **Disseminate the knowledge**

- COST Action website

❑ Report (with an ISBN number) ⇒ **Disseminate the knowledge**

- Based on the papers presented during the 1<sup>st</sup> workshop in Copenhagen

❑ Conferences ⇒ **Disseminate the knowledge**

- Call for papers (EWSHM2016 and MSSCE 2016)



# 4. What's next?

## Innovation pillar

### Recommendations:

#### More **visibility to people involved in the COST Action**

- Elaborate a diagram with people and their main expertise, based on the contributions made until now. Publicise in the COST website.
- Potential to more easily identify partners for collaborations (H2020, others).

#### Formulate an industrial problem where SHM can help ⇒ **Focus on industry needs**

- For each industrial partner, ask to formulate a problem for which they would be willing to share within the COST Action.
- Potential to future projects.



# 4. What's next?

Entrepreneurship pillar

Recommendations:

❑ **STSM** more oriented to the industry ⇒ **Create Value**

- List of industrial partners
- For each industrial partner, ask to formulate a problem for which they would be willing to share with a visiting researcher
- Potentiate future collaborations and job opportunities.



# 4. What's next?

## Dissemination pillar

### Recommendations:

#### ❑ **Portfolio of case studies** (available information through the COST website)

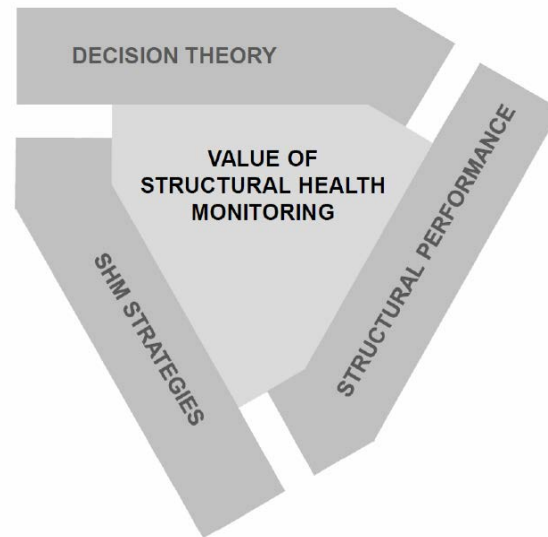
- Case Study S101, A1 Westautobahn, Austria  
(<http://www.cost-tu1402.eu/Login/S101>)
- Z24 Bridge, Koppigen-Utzenstorf, Switzerland  
([link in the COST website ?](#))
- “Call for case studies”

#### ❑ **Fact sheets**

- Wikipedia page
- Conferences / scientific journals
- Book series



# Thank you for your attention



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