



Recent Activities







- 8. Workshop on Categorisation, Technical University of Munich, Germany, 20. to 21. March 2017
- 7. Joint TU 1402, TU 1406, IABSE
 Workshop on The Value of Structural
 Health Monitoring for the Reliable
 Bridge Management. Zagreb, Croatia,
 2. March to 3. March 2017.
- 6. Workshop of the COST Action TU1402, Brussels, Belgium, 23. to 24. January 2017



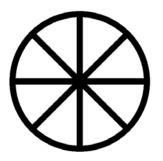
TU1402 Strategy

- 1. Impact Industry
- 2. Impact Science
- 3. Unique Network



TU1402 Strategy: Impact industry





- (1) Stepwise development of a case study portfolio
- (2) Development of teaching activities
- (3) Continuation of the Innovation Committee activities
- (4) Start of the standardisation activities.



TU1402 Strategy: Impact science



No.	Strategy	System state	Value of Information
1	Fatigue loading	Exposure	$\overline{VoI}_{e_1} = 18\%$
2	Hot spot monitoring	Exposure and constituent damage	$\overline{VoI}_{e_2} = 31\%$
3	System loading monitoring	Exposure	$\overline{VoI}_{e_3} = 0.7\%$

- Organisation of Special Sessions at international conferences in Europe and worldwide,
- (2) Initiation of special journal issues (e.g. in relation to the Special Sessions),
- (3) Research project acquisition



TU1402 Strategy: Unique Network





The TU1402 network will

- (1) be made more visible,
- (2) be extended internationally,
- (3) be actively utilised and
- (4) continuously be developed to include relevant partners.

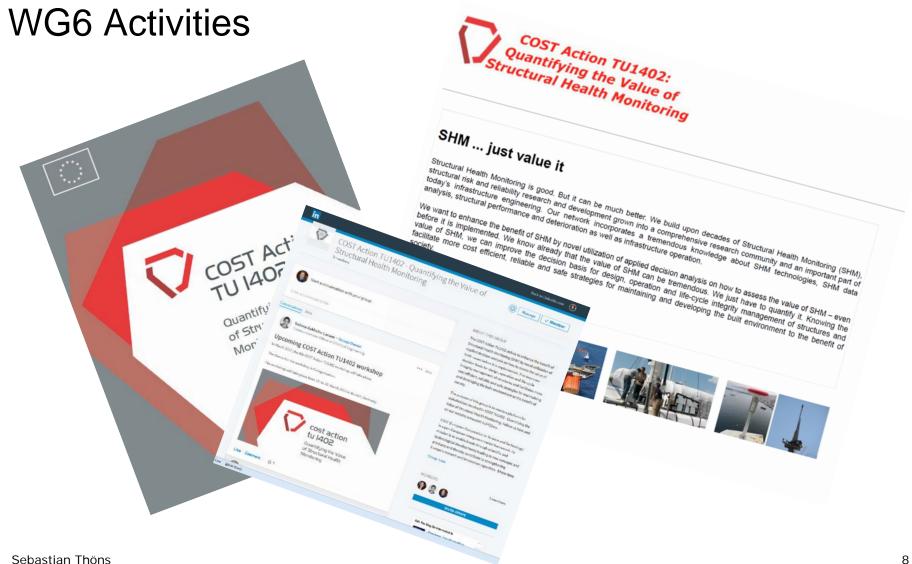


Work and Budget plan for 05/2017 to 04/2018

- Meetings
 - 9th Workshop, May, 29 and 30, 2017, Trinity College, Dublin, Ireland
 - 10th Workshop, October 2017, ???
 - Steering Committee Meeting
- Dissemination Meetings
 - ICOSSAR 2017, Vienna, Austria
 - IWSHM 2017, Stanford, USA
- 6 STSMs
- Training School

We will support and adjust to any good ideas!







COST Action TU1402: Key deliverables

- Dedicated dissemination activities.
 - E.g.: workshops, special sessions at international conferences, training courses, scientific missions
- 2. A well-developed homepage.
 - Activity documentation with videos, presentations and reports
- 3. A library of tools and algorithms.
- 4. A chapter to the Probabilistic Model Code of the JCSS.
 - Documentation the scientific framework and approaches
- 5. A guideline on the quantification of the value and optimization of SHM.
 - Detailed examples
 - For practising engineers



COST Action TU1402: Scientific Program

				Year												
Tasks				1		2				3				4		
			Qua	arte	er	Quarter				Quarter				Quarter		
		I	II	III	IV	ı	II	Ш	IV	I		III r	V	I	II	
Task	Task 1: Theoretical Framework															
а	Clarification of the theory															
b	Formulation of the theory for applications															
С	Communication of the theory															
M1	Dissemination															
Task 2: SHM Strategies and Structural Performance																
а	SHM and structural performance categorisation															
b	SHM information modelling platform															
M2	Dissemination															
Task 3: Methods and Tools																
	Databases and modelling toolboxes for engineers and															
а	researchers															
b	Advancement of algorithms for efficient computation															
M3	Dissemination															



COST Action TU1402: Scientific Program

					Year													
		1				2				3				4				
	Tasks		Quarter				Quarter			U	arter		Quar		ter			
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Task	4: Case Studies Portfolio																	
а	Selection of case studies																	
b	Case study calculation and documentation																	
M4	M4 Dissemination																	
Task 5: Development of Guidelines																		
а	Chapter of JCSS Probabilistic Model Code (PMC)																	
b	Guideline on the quantification of the value and optimization of SHM																	
M5	Dissemination of guidelines																	

We are here

