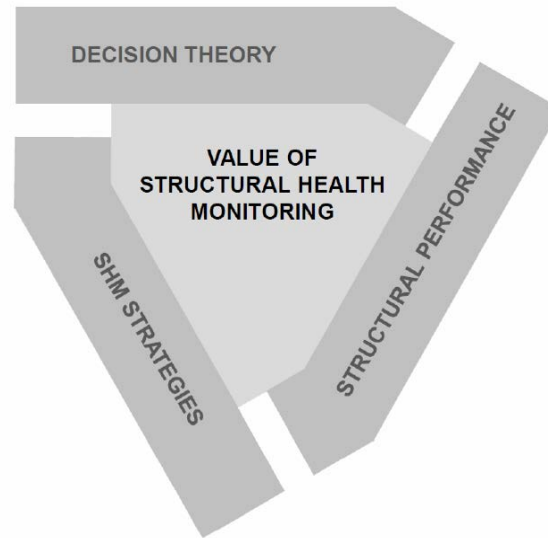


Further Development of STSM Strategy



Alan O'Connor, Helder Sousa

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1. COST STSM

Vision

- ❑ Short Term Scientific Missions (STSM) are exchange visits aimed at supporting individual mobility, strengthening existing networks and fostering collaboration between researchers. A STSM should specifically contribute to the scientific objectives of the COST Action.



1. COST STSM

Structure

- ❑ STSM must respect the following criteria:
 - They must have a minimum duration of 5 days.
 - They must have a maximum duration of 90 days.
 - STSM need to be carried out in their entirety within a single Grant Period and always within the Action's lifetime.

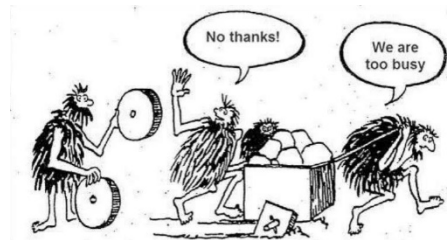
- ❑ Specific additional provisions have been enacted to encourage the participation of Early Career Investigators (ECI) in STSM
 - They must have a minimum duration of 91 days.
 - They must have a maximum duration of 180 days.



2. TU1402 STSM

Vision

- ❑ To promote mobility within the Actions scientific objectives
- ❑ To facilitate Innovation within the Action
- ❑ To enable knowledge transfer, knowledge sharing and exploration of exploitation potential of developed IP (i.e. increasing Technology Readiness Level, TRL)
- ❑ To facilitate the sharing of new techniques/infrastructure or of data between host and home institution/organization
- ❑ To facilitate the creation of networks between researchers and industry (SME's) and thereby to create long lasting relationships.



2. TU1402 STSM

Vision (Innovation Committee recommendations)

❑ Entrepreneurship – Possible recommended activities

1st workshop TU1402
May 2015, DTU

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



2. TU1402 STSM

Goals

- ❑ To increase the participation of SME's in both the Action and in the STSM's approved by the Action by targeting topics of specific interest to industry (recommendation from the Innovation Committee, Barcelona workshop, March 2016)
- ❑ To demonstrate/increase the TRL of existing/emerging technologies from STSM's (objective TRL 4 - 7):



TRL 7 – system prototype demonstration in operational environment

TRL 6 – technology demonstrated in relevant environment (industrially relevant environment in the case of key enabling technologies)

TRL 5 – technology validated in relevant environment (industrially relevant environment in the case of key enabling technologies)

TRL 4 – technology validated in lab



2. TU1402 STSM

History

Name	STSM Title	Duration	Home institution	Host institution/Mentor
Dr Maria Giovanna Masciotta	The Value of SHM for Structural Behaviour of Masonry Structures under Varying Environmental Effects	21/09/15 to 23/12/15 (93 days)	University G. d'Annunzio, Pescara, Italy	Minho University, Guimarães, Portugal Prof. José Matos jmatos@civil.uminho.pt
Ms. Simona Bogoevska *	A novel bi-component SHM strategy for deriving global models of operational Wind Turbines	23/11/15 to 21/12/15 (29 days)	Ss. Cyril and Methodius University, Skopje, FYR Macedonia	ETH Zurich, Switzerland Prof. Eleni Chatzi chatzi@ibk.baug.ethz.ch
Mr. Dominik Skokandić *	Application of Bridge Weight-in-Motion measurements in assessment of existing road bridges	09/05/16 to 30/05/16 (21 days)	Faculty of Civil Engineering, University of Zagreb Kačićeva 26, Zagreb, Croatia	Slovenian National Building and Civil Engineering Institute (ZAG) Mr. Ales Znidaric ales.znidaric@zag.si



University



Research institutes



Industry



2. TU1402 STSM

History

Name	STSM Title	Duration	Home institution	Host institution/Mentor
Dr. Simona Miraglia *	Value of Information in System Resilience Modelling	16/04/16 to 30/04/16 (14 days)	Department of Civil Engineering, Technical University of Denmark	School of Engineering, The University of Newcastle, Callaghan, NSW 2308, Australia Prof. Mark Stewart mark.stewart@newcastle.edu.au
Dr. Boutros El Hajj	The potential added value of heterogeneous databases for maintenance of infrastructures in case of limited number of monitored structures with imperfect sensors	27/05/16 to 05/09/16 (102 days)	Faculty of Sciences and Technologies, University of Nantes	Dept. of Civil Engineering, Trinity College Dublin Prof. Alan O'Connor alan.oconnor@tcd.ie
Dr. Krzysztof Radzicki	Strategies of structural health thermal monitoring of dams and levees	27/06/16 to 18/07/16 (22 days)	Institute of Water Engineering and Water Management, Cracow University of Technology	Irstea – National Research Institute of Science and Technology for Environment and Agriculture Prof Stephane Bonelli stephane.bonelli@irstea.fr



University



Research institutes



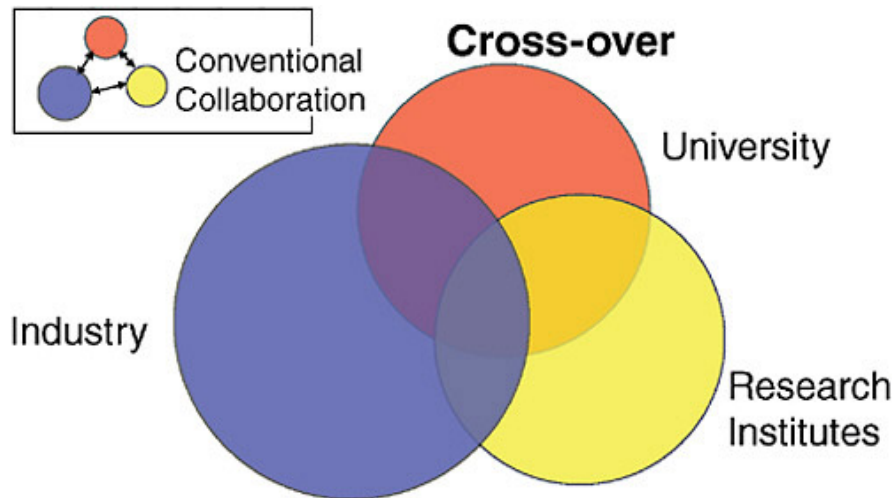
Industry



2. TU1402 STSM

Strategy

- ❑ STSM Workshop to be planned for Q4 2016 focused on inviting SME's to explain to them the benefits/potential opportunities offered by STSM's.
 - A selection of executed STSM's, which clearly demonstrate commercial exploitation opportunities are to be presented at this Workshop.



2. TU1402 STSM

Strategy

- ❑ Partners to suggest potential STSM topics which would be of interest to SME's (i.e. TRL 4 – 7 achievable).
 - 1 or 2 sample SME's to be selected for presentation at the Workshop.
 - A list of other potential STSM's to be developed at the Workshop.
 - Workshop a pairing opportunity between Research Institutes & SME's.
- ❑ Partners to provide contact details of SME contacts to be invited to the Workshop (before September 9th).
- ❑ Presentation of SME STSM's at 6th TU1402 Workshop.



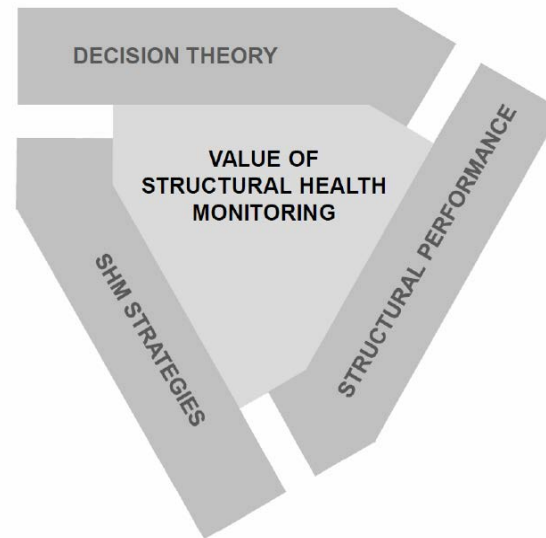
2. TU1402 STSM

Strategy

Discussion/Suggestions/Comments:



Thank you for your attention



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