



WG2 and WG3 Workshop

20-21 October 2016
Delft, The Netherlands

J. Campos e Matos – Chair – University of Minho, Portugal



COST is supported by
the EU Framework
Programme



OUTLINE

1. Aim
2. Organization
3. Scientific Programme
4. Impacts
5. Representation
6. Members
7. Dissemination
8. Future Events

1. AIM

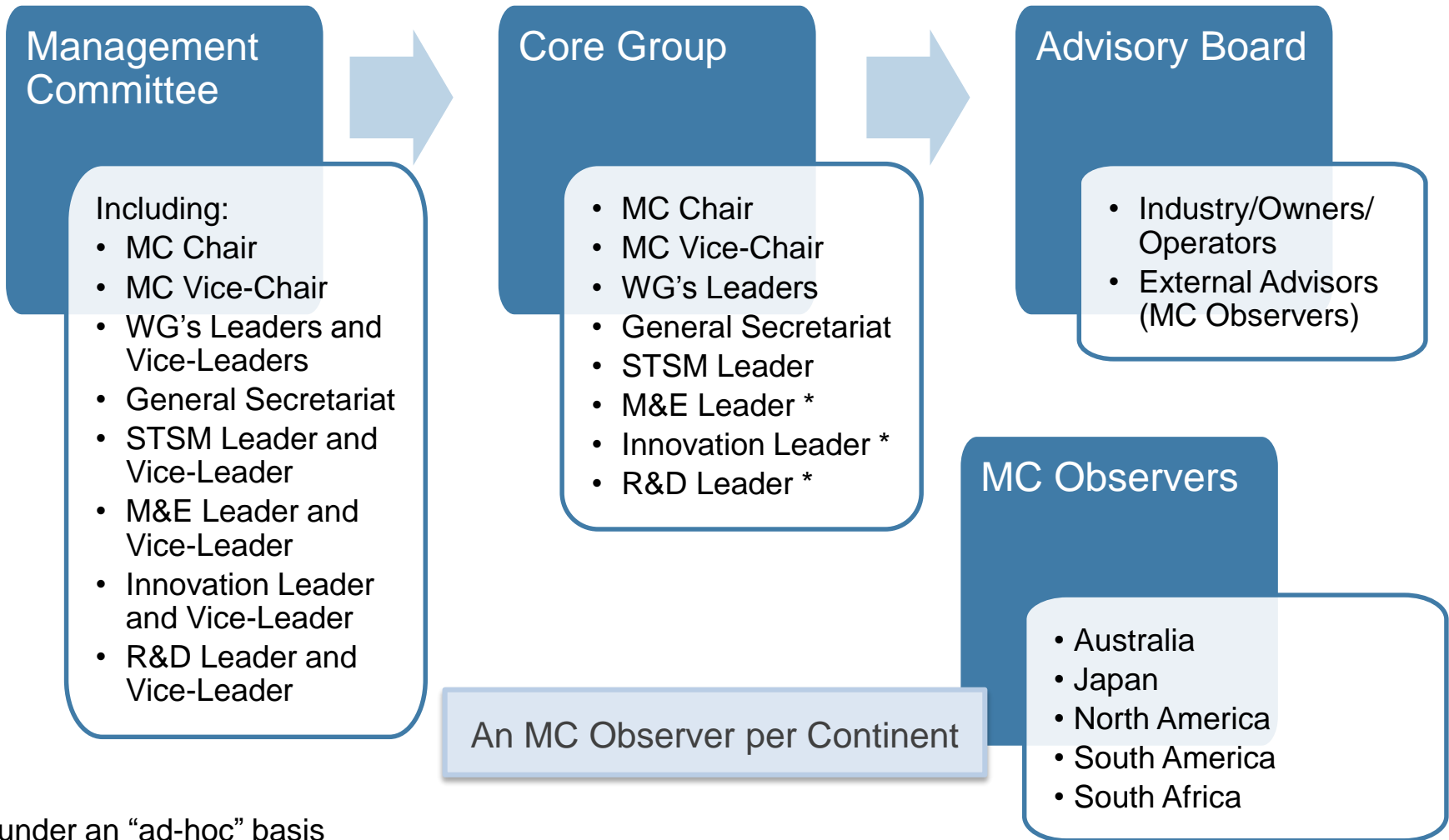
The overall intention of the Action is to

develop a guideline for the establishment of Quality Control (QC) plans in roadway bridges

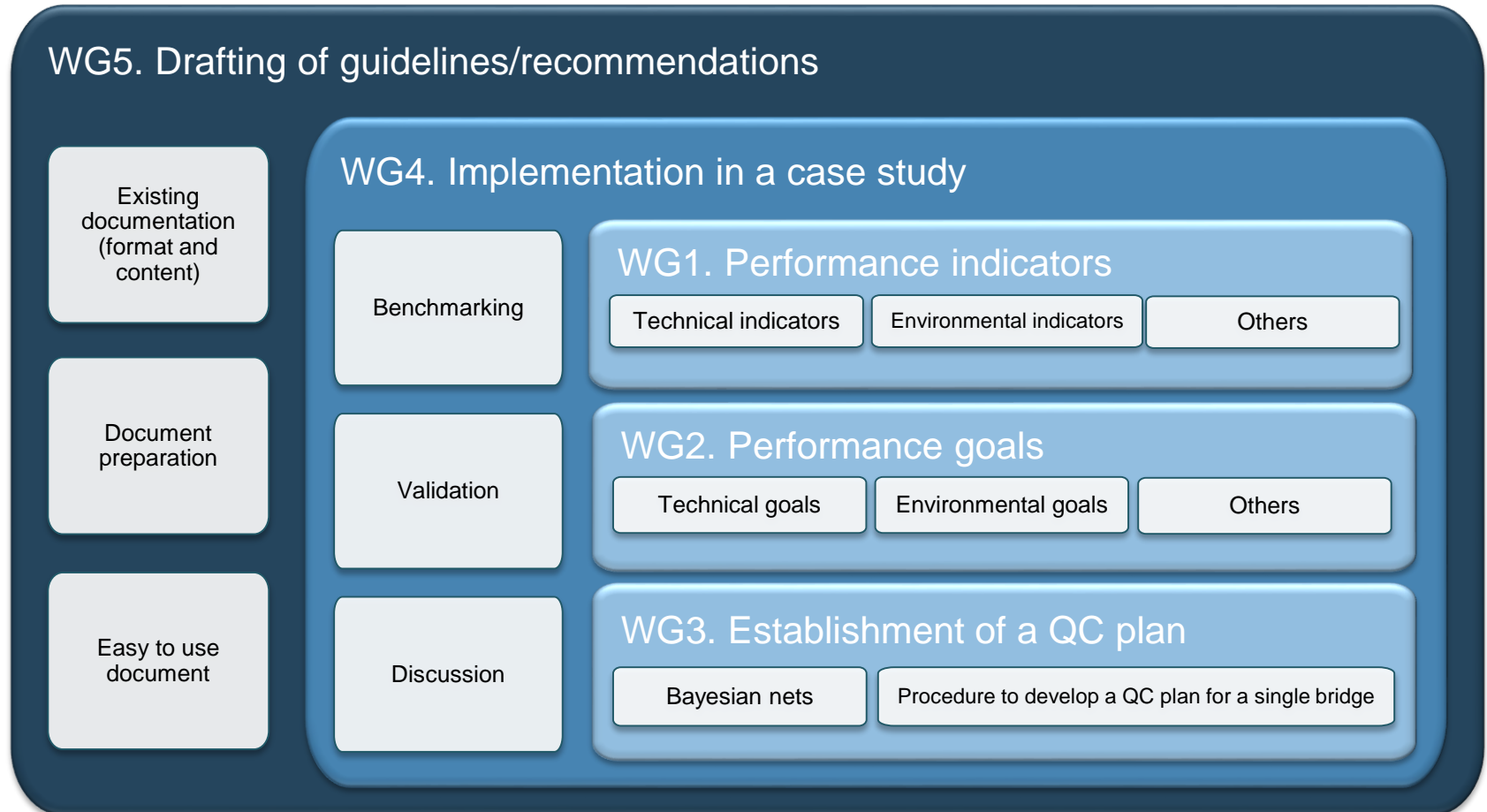
Reachable by taking 5 specific steps:

- (i) Systematize knowledge on QC plans for bridges, which will help to achieve a state-of-art report that includes performance indicators and respective goals;
- (ii) Collect and contribute to up-to-date knowledge on performance indicators, including technical, environmental, economic and social indicators;
- (iii) Establish a wide set of quality specifications through the definition of performance goals, aiming to assure an expected performance level;
- (iv) Develop detailed examples for practicing engineers on the assessment of performance indicators as well as in the establishment of performance goals, to be integrated in the developed guideline;
- (v) Create a database from COST countries with performance indicator values and respective goals, that can be useful for future purposes.

2. ORGANIZATION



2. ORGANIZATION



3. SCIENTIFIC PROGRAMME

It is organized based on the division of tasks (and subtasks) allocated according to a timetable.

WG		Year 1				Year 2				Year 3				Year 4			
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4
WG1	Technical indicators	x	x	x	x												
	Environmental indicators	x	x	x	x												
	Other indicators	x	x	x	x												
WG2	Technical goals					x	x	x	x								
	Environmental goals					x	x	x	x								
	Other goals					x	x	x	x								
WG3	Survey of European roadway QC plans	x	x	x	x	x	x										
	Procedures for the establishment of a QC plan							x	x	x	x						
WG4	Selection of case studies							x	x	x							
	Benchmarking										x	x	x	x	x		
	Application on a QC plan											x	x	x	x		
WG5	Standardized performance indicators				x	x	x	x									
	Standardized goals								x	x	x	x					
	Standardized QC plan										x	x	x	x	x	x	x
WG6	Dissemination	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x

3. SCIENTIFIC PROGRAMME

General plan

- One Workshop per year (end of each year);
- One Training School per year (end of each year):
- STSMs occur through out the entire project;
- WG meeting dates will usually coincide with Workshops and MC meetings.

Activity/Months	3	6	9	12	15	18	21	24	27	30	33	36	39	42	45	48
Meeting	X			X		X		X		X		X		X		X
Workshop				X				X				X				
Conference																X
Training school								X				X				X
STSM	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Website	X			X		X		X		X		X		X		X
Milestone				M1				M2		M3				M4		M5

3. SCIENTIFIC PROGRAMME

Milestones

Activity/Months	3	6	9	12	15	18	21	24	27	30	33	36	39	42	45	48
Milestone				M1				M2		M3				M4		M5

M1: WG1 – Performance indicators

Elaborate a report of performance indicators

M2: WG2 – Performance goals

Elaborate a report of performance goals

M3: WG3 – Establishment of a QC plan

Prepare recommendations for the establishment of Quality Control plan

M4: WG4 – Implementation in a Case Study

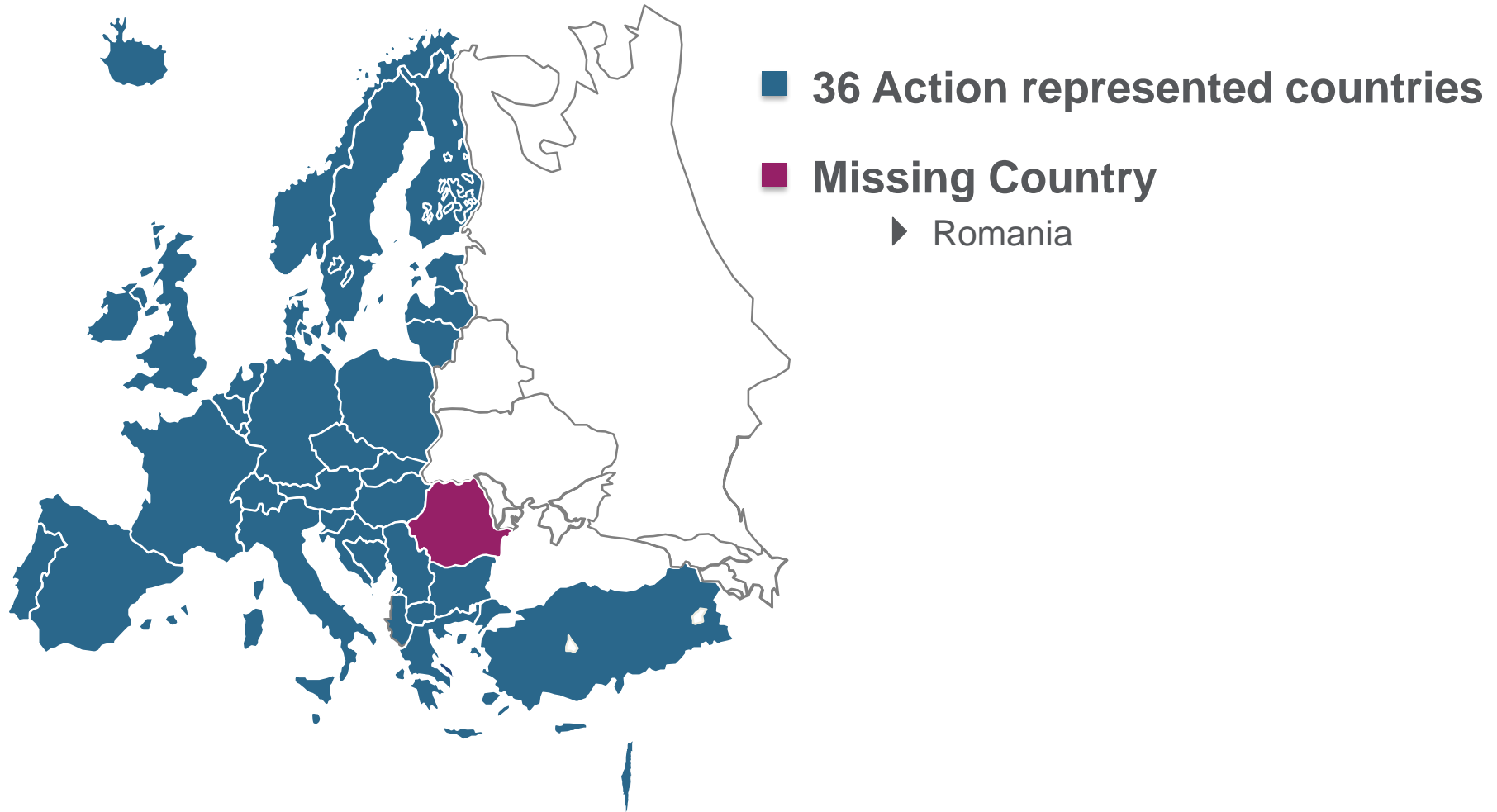
Prepare database from benchmarking

M5: WG5 – Drafting of guideline/recommendations

Prepare guideline/recommendations for the establishment of QC plan

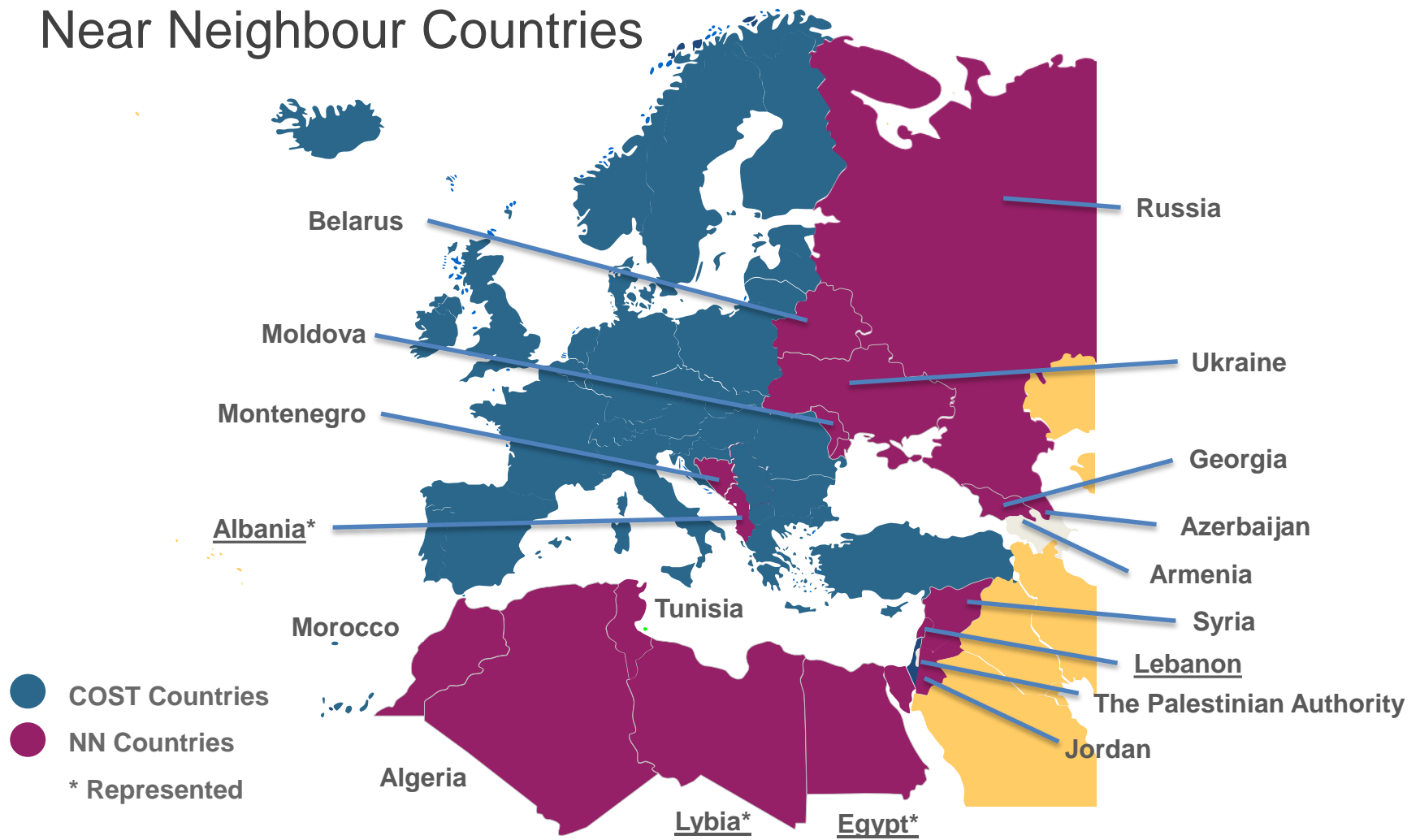
5. REPRESENTATION

COST Countries



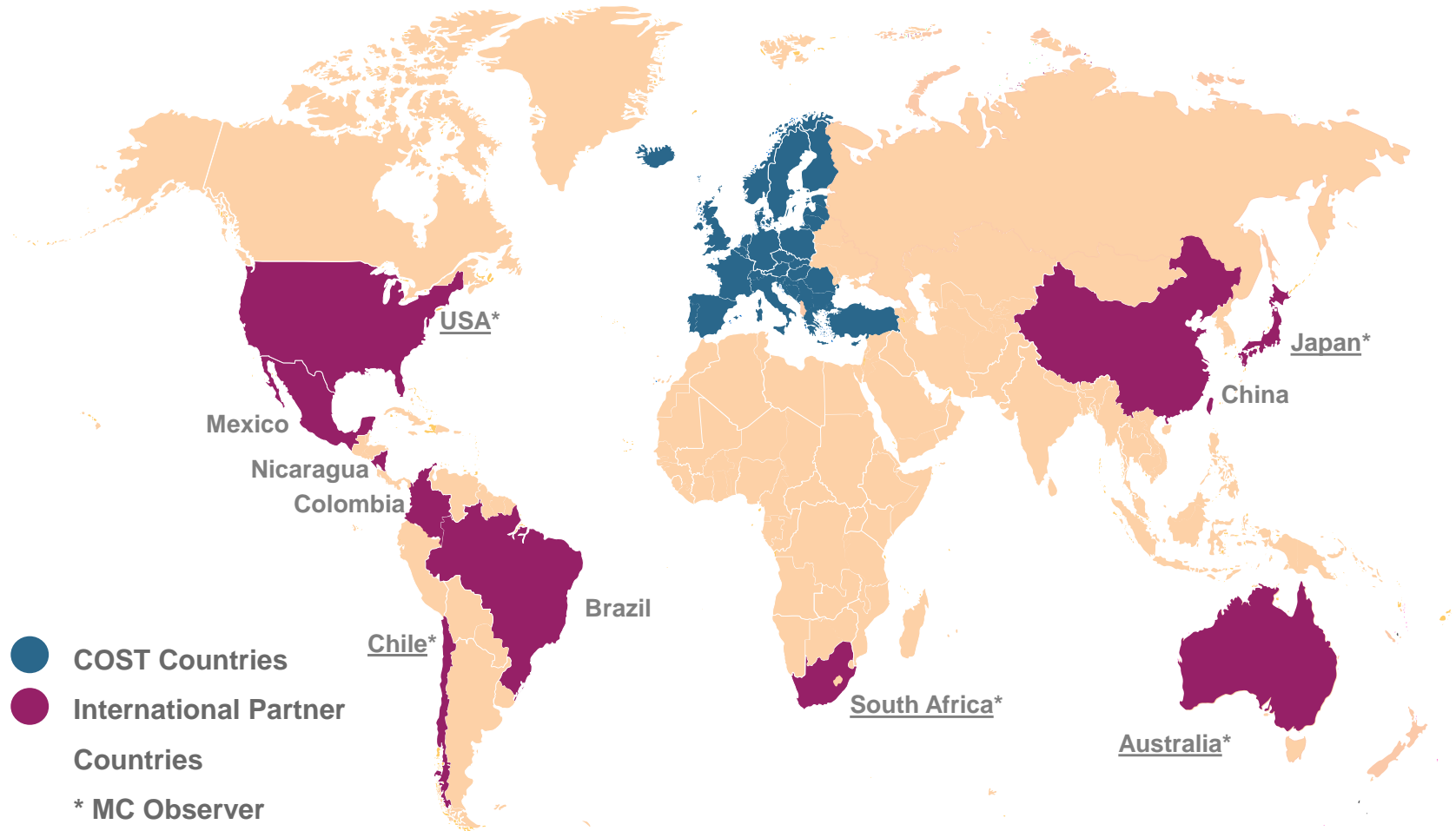
5. REPRESENTATION

Near Neighbour Countries

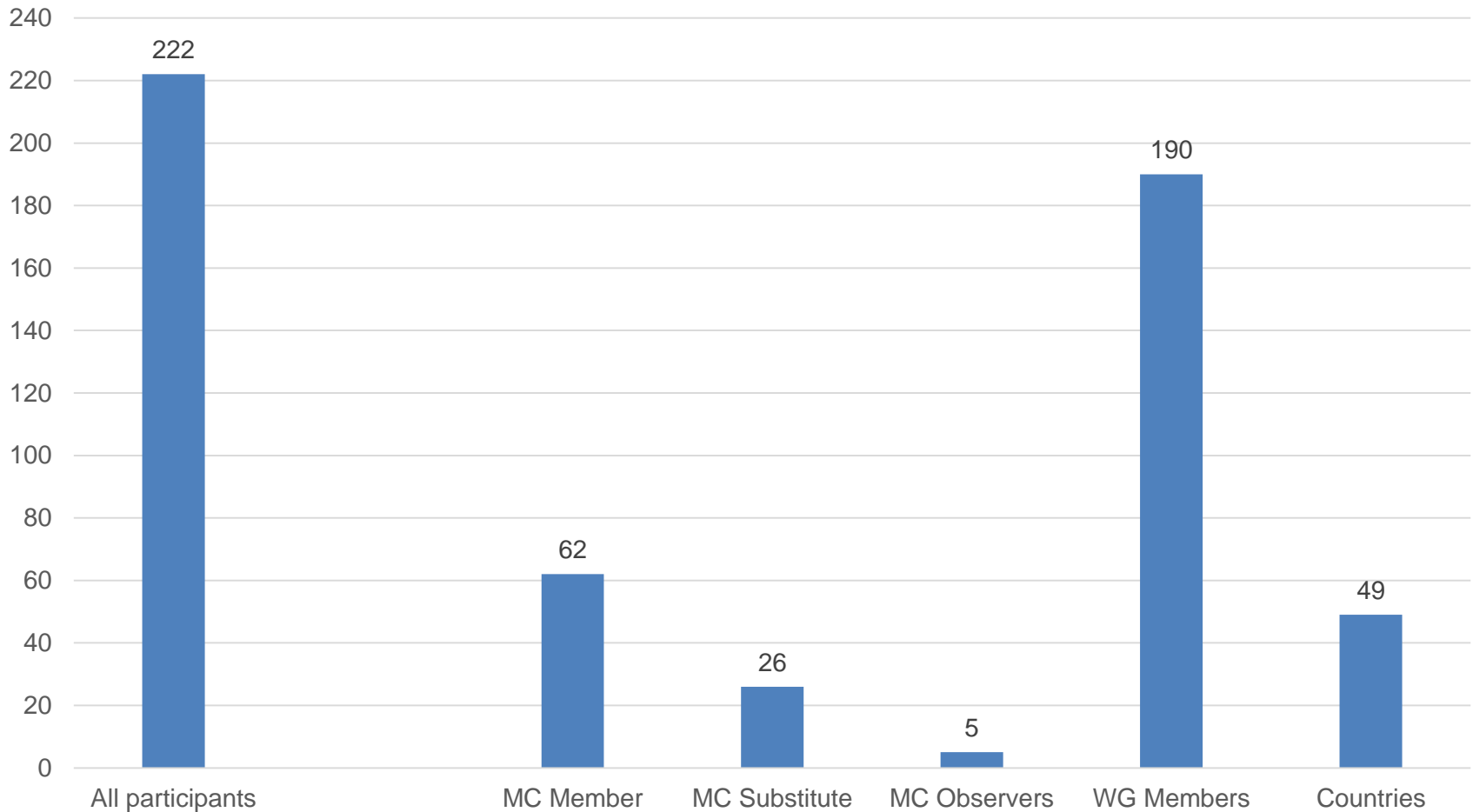


5. REPRESENTATION

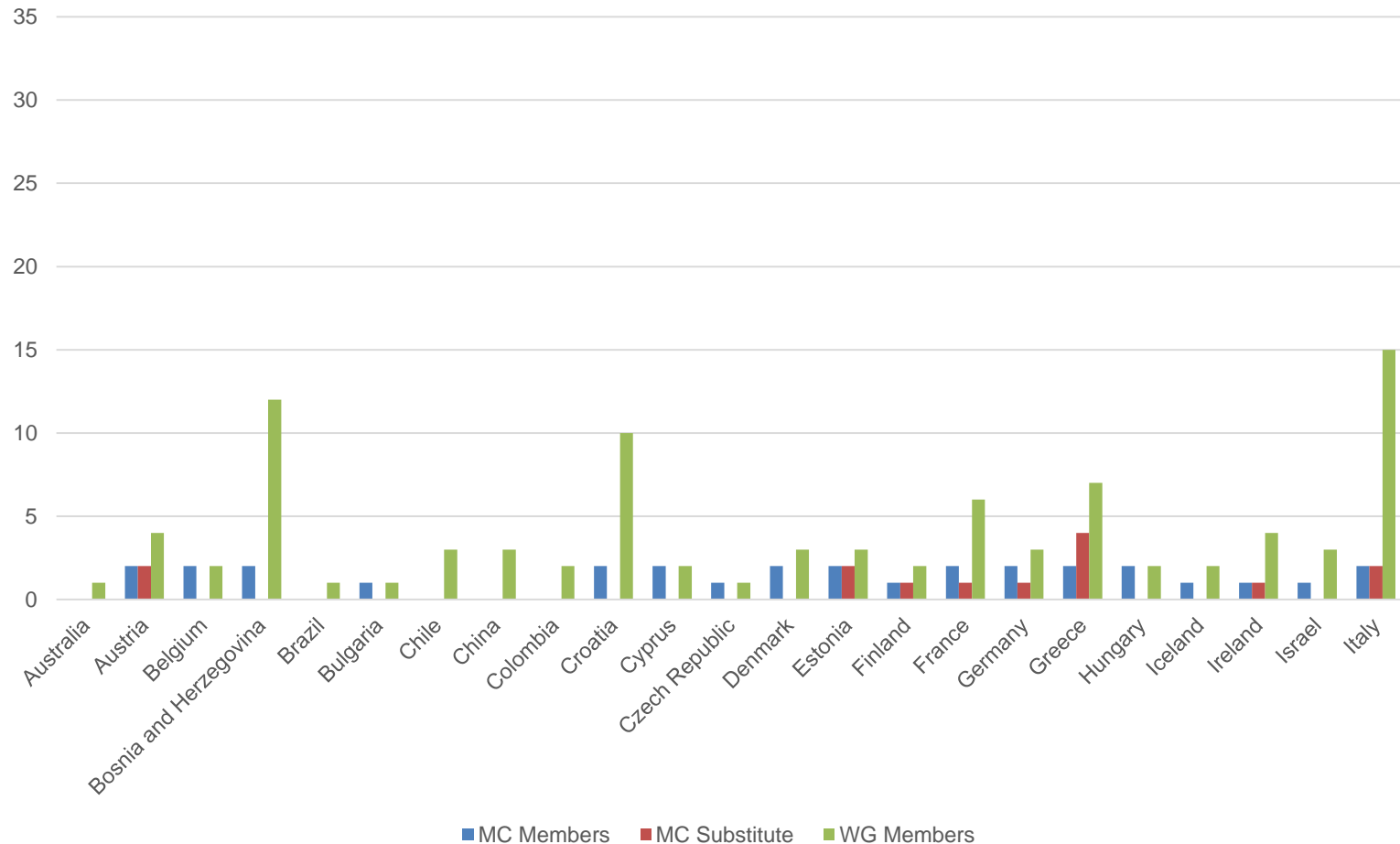
International Partner Countries



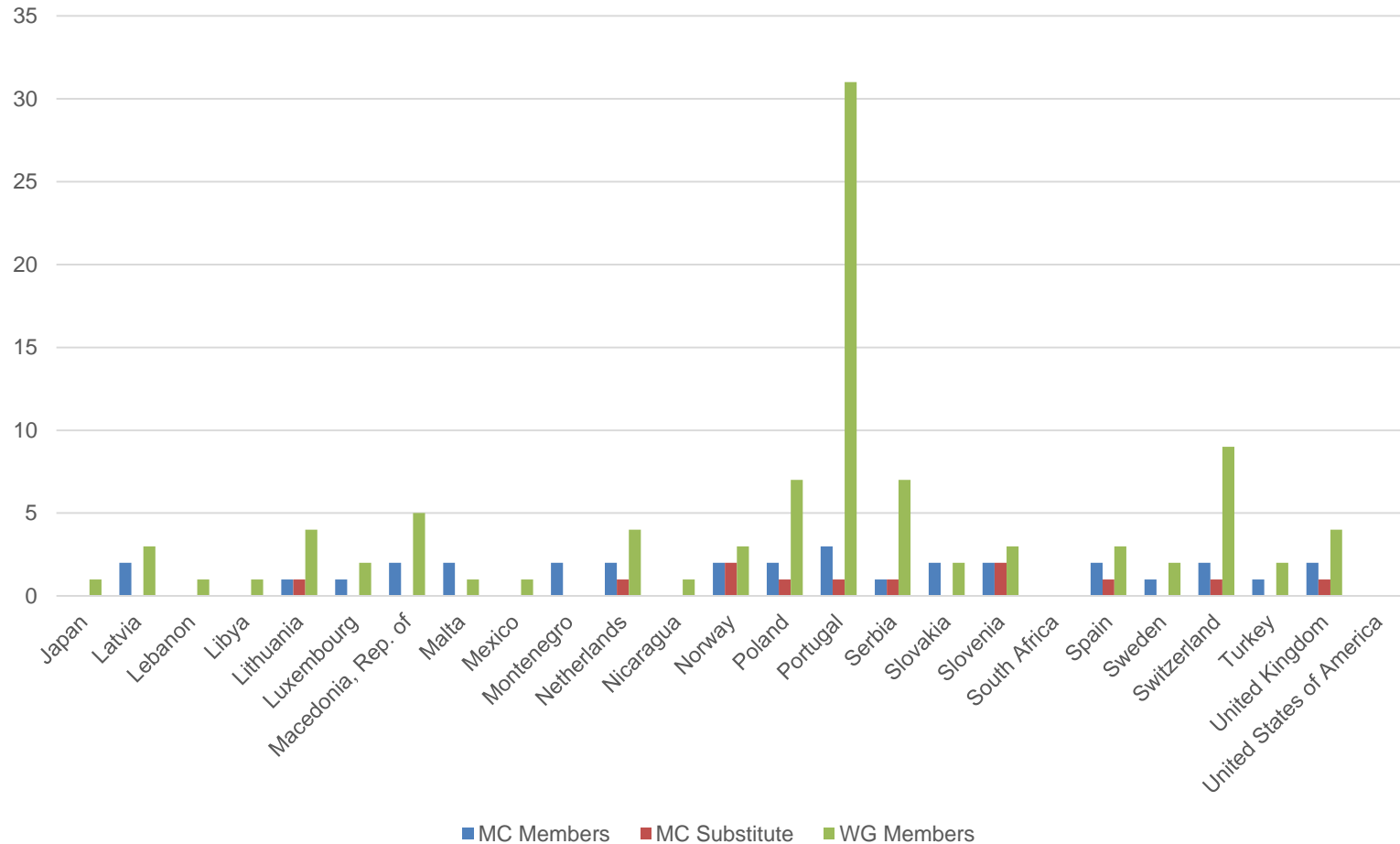
6. MEMBERS



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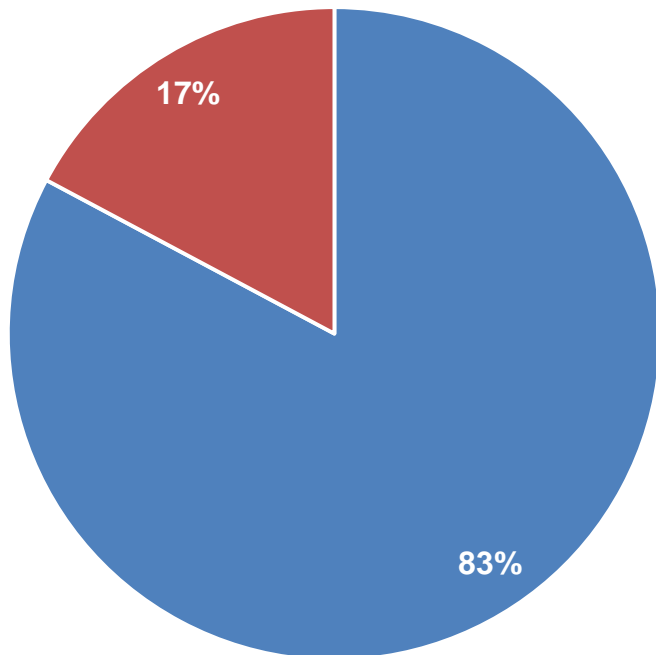


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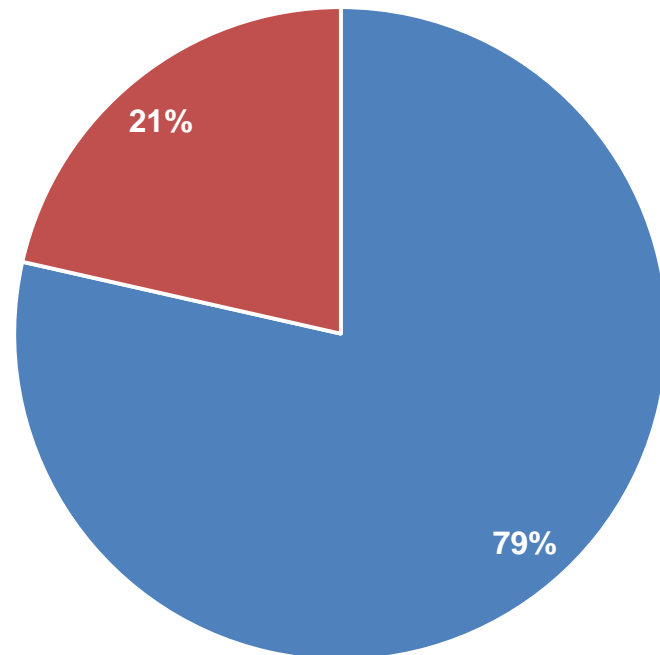
6. MEMBERS

MC Members



■ Male ■ Female

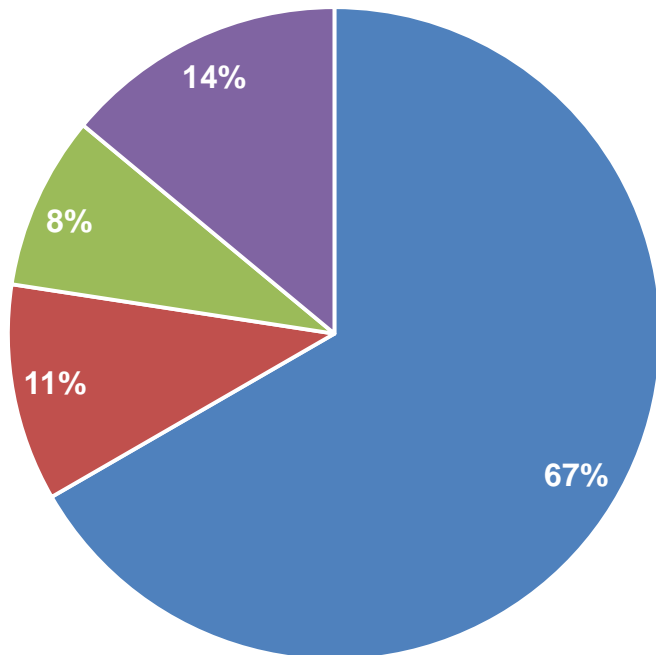
WG Members



■ Male ■ Female

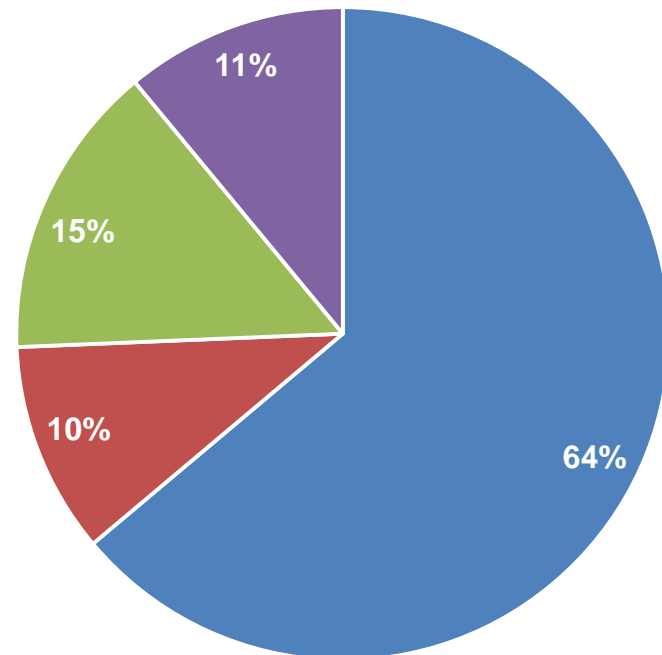
6. MEMBERS

MC Members



■ University ■ Institute ■ Owner ■ Consultant

WG Members



■ University ■ Institute ■ Owner ■ Consultant

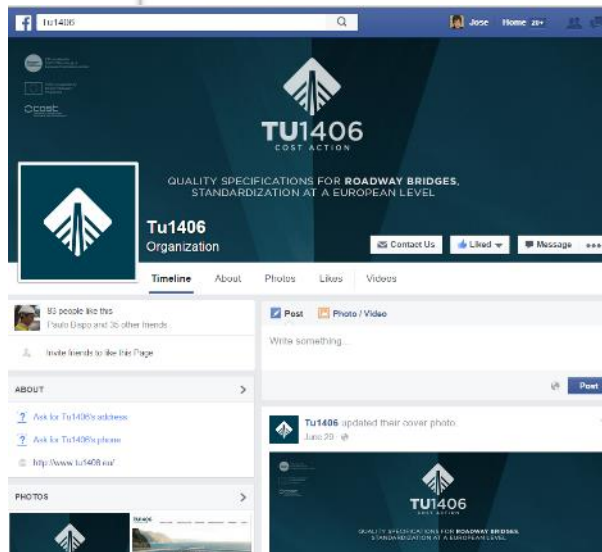
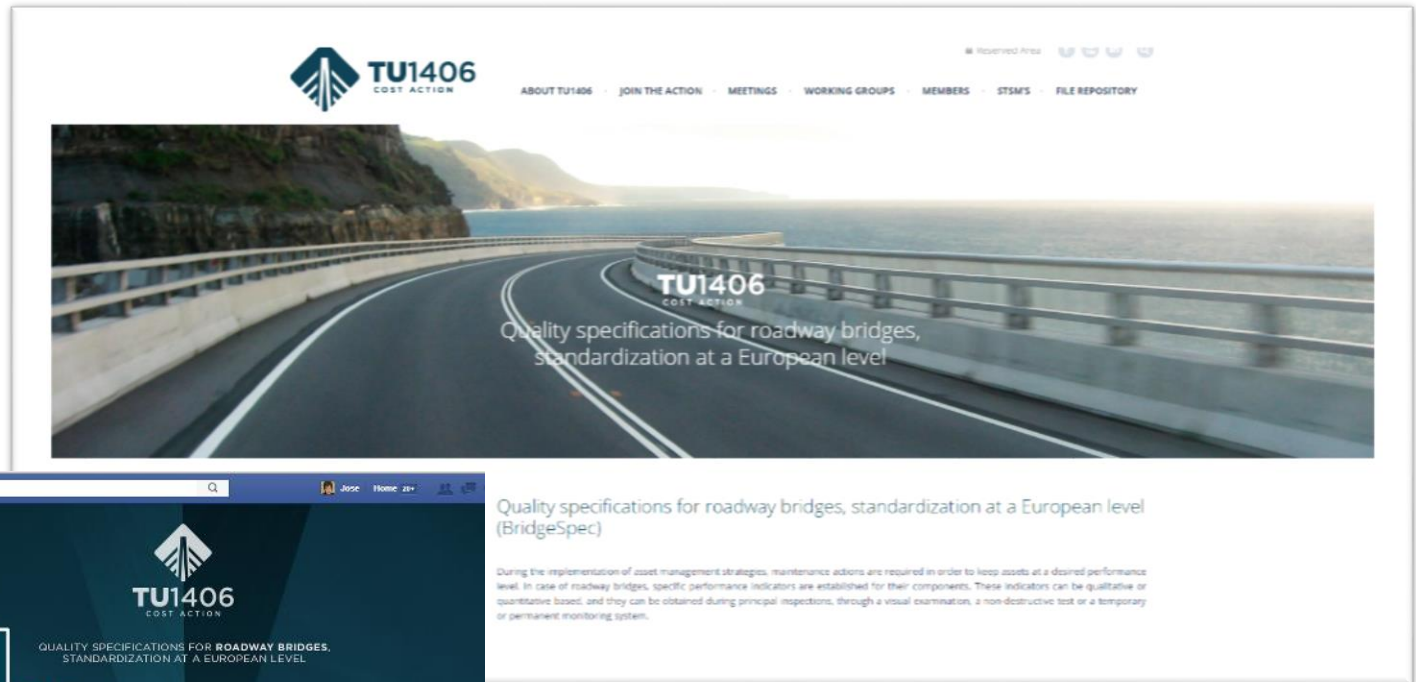
7. DISSEMINATION

- Activities
 - Workshops/Conferences
 - STSM (especially promoted to early-stage researchers)
 - Dissemination meetings (e.g. conferences, etc.)
 - Training schools
- Publications
 - Journal special issues
 - Peer-reviewed articles
 - Reports issued by the Action
 - E-book
 - Guideline and link to standardization

7. DISSEMINATION

Website

www.tu1406.eu



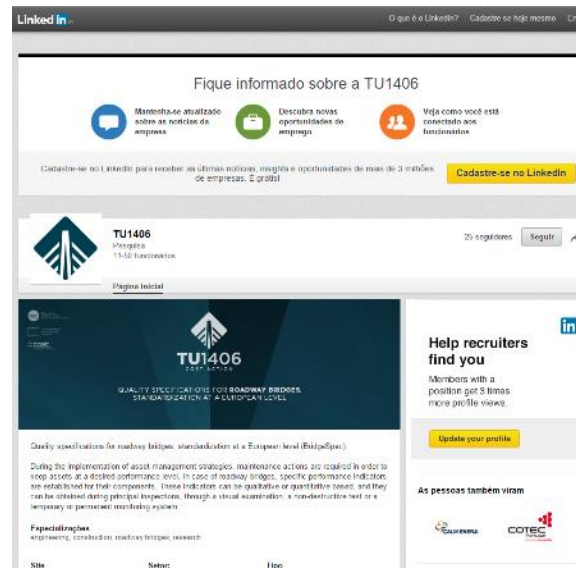
Facebook page

<https://www.facebook.com/tu1406ca>

7. DISSEMINATION

LinkedIn page

<https://www.linkedin.com/company/tu1406>



YouTube channel

https://www.youtube.com/channel/UCwxn7su9Bjm_D5xsuExRg8Q

7. DISSEMINATION

Poster



The Project

Development of a European guideline for the establishment of quality control plans in roadway bridges.

Objectives and Benefits

Focus on bridge maintenance and life-cycle performance at two levels: (i) performance indicators, (ii) performance goals.

Aimed at the improvement of bridge management strategies, enhancing asset management of ageing structures in Europe.

Scientific Work Plan

The scientific work plan of this Action ensures the working progress in support of the established objectives which is structured in the allocation and division of tasks and subtasks in working groups.

WG 1 – Characterization of performance indicators

Leader: Prof. Alfred Strauss – University of Natural Resources and Life Sciences (BOKU), Austria
wg1@tu1406.eu

WG 2 – Identification of existing performance goals

Leader: Prof. Irina Stipanovic – University of Twente, Netherlands
wg2@tu1406.eu

WG 3 – Establishment of a Quality Control Plan

Leader: Prof. Rade Hajdin – University of Belgrade, Serbia
wg3@tu1406.eu

WG 4 – Implementation in a Case Study

Leader: Mr. Amir Kedar – Kedmor Engineers Ltd, Israel
wg4@tu1406.eu

WG 5 – Drafting of the Guidelines/Recommendations

Leader: Dr. Vikram Pakrashi – University College Cork, Ireland
wg5@tu1406.eu

WG 6 – Dissemination

Leader: Mr. Guðmundur V. Guðmundsson – Vegagerðin - The Icelandic Road and Coastal Administration (IRCA), Iceland
wg6@tu1406.eu

Contact Details

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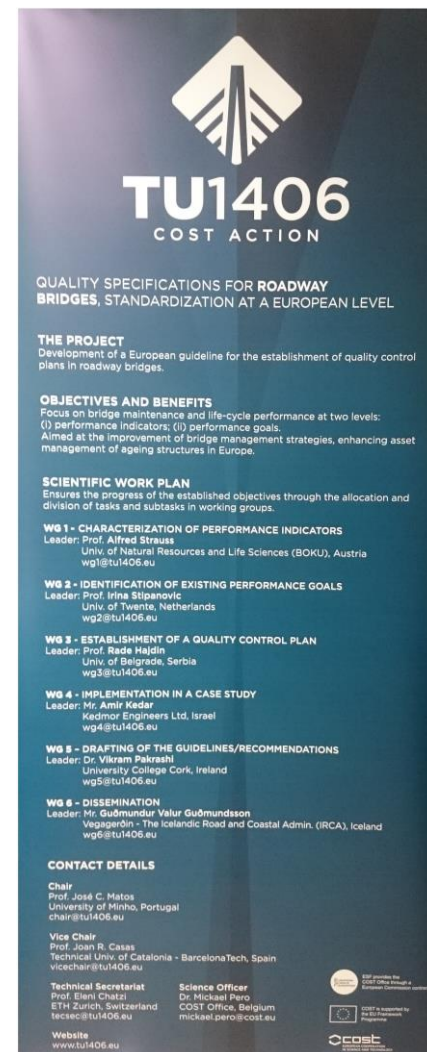
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Website

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Leaflet/Brochure



8. FUTURE EVENTS



Title: **COST Action TU1406: Quality specifications for roadway bridges, standardization at a European level (BridgeSpec) – Performance indicators**

Date: **Wednesday, November 23rd, 2016**

Group: **Session 11 – Bridge Structures**

Note: **TU1406 Meeting will take place on Wednesday, November 23rd**

8. FUTURE EVENTS



TU1406
COST ACTION



TU1402
COST ACTION



Zagreb Joint Workshop 02-03 March, 2017

- Title:** The Value of Structural Health Monitoring for the Reliable Bridge Management
- Date:** 02-03 March 2017
- Venue:** Faculty of Civil Engineering, University of Zagreb
- Organizers:**
- COST 1402** - Quantifying the value of structural health monitoring
 - COST 1406** - Quality specifications for roadway bridges, standardization at EU level
 - IABSE WC1** - Structural performance, safety and analysis

8. FUTURE EVENTS



TU1406
COST ACTION



TU1402
COST ACTION



Zagreb Joint Workshop 02-03 March, 2017

Topics: **Performance assessment of existing bridges for their reliable management** (*COST Action TU1406*)
Framework, strategies and tools towards the quantification of the value of structural health monitoring (*COST TU1402*)
Management and Performance-assessment of existing structures (*IABSE WC1*)

Call for short papers: **November 20th, 2016**

8. FUTURE EVENTS



Topic: **Bridges**

Venue: **Eesti Näitused – Estonian Fairs Ltd**

Call for abstracts: **October 1st, 2016**

Scientific Committee notice: **December 1st, 2016**

Paper submission: **May 10th, 2017**

Note: **TU1406 Meeting will take place**

8. FUTURE EVENTS



Title: **COST TU1406 – Quality Control for the efficient management of existing bridges**

Sponsoring Group: **WC4 + COST TU1406**

Symposium Theme: **Existing Structures into the Future**

Session Format: **Traditional paper + Discussion number of 90 minutes**

8. FUTURE EVENTS



- Title:** BESTInfra – Building up Efficient and Sustainable Transport Infrastructure
- Date:** 21-22 September 2017
- Venue:** Faculty of Civil Engineering, Czech Republic University
- Organizers:** Ministry of Transport
- COST 1406 –** Quality specifications for roadway bridges, standardization at EU level
- TA ČR –** Technology Agency of the Czech Republic

8. FUTURE EVENTS



Abstract Submission Deadline: **November 30th, 2016**

Full Paper Submission Deadline: **February 28th, 2017**

Final Manuscript Submission Deadline: **May 21st, 2017**

Selected papers will be published in extended form in Scopus indexed journal Acta Polytechnica, Journal of Advanced Engineering published by the CTU in Prague.

8. FUTURE EVENTS



Title: Design, construction and maintenance

Organizers: Chilean Association of Roads and Transport (ACCT & Chile PIARC National Committee)
National Roads Administration of Chile

Sponsor: COST TU1406

Call for abstracts: January 15th, 2017

Note: TU1406 Central and South American WG meeting will take place on October 17th, 2017



THANK YOU FOR YOUR ATTENTION!

WWW.TU1406.EU