



BRIDGE OWNERS FORUM 50

GRAND CHALLENGES

1st November 2016

BOF 50 AGENDA

1	Welcome, introductions and new members	Cam	15 mins	9.30 – 9.45
2	Actions from last meeting	Cam	15 mins	9.45 – 10.00
3	Introduction to Grand Challenges	Neil	10 mins	10.00 – 10.10
4	Grand Challenges Road Map ➤ Questions	Rob	10 mins	10.10 – 10.20
5	Introduction to Workshop Sessions ➤ Questions ➤ Group allocation	Stephen	10 mins	10.20 – 10.30
6	Workshop Session 1 ➤ Working in groups to review the work done to date ➤ Feedback	Neil Rob Stephen	20 mins 10 mins	10.30-11.00
	Coffee Break		10 mins	11.00-11.10
7	Workshop Session 1 Feedback	Stephen	20 mins	11.10-11.30
8	Workshop Session 2 ➤ Introduction ➤ Working in groups ➤ Feedback	Neil Rob Stephen	5 mins 60 mins 25 mins	11.30-13.00
	Lunch		60 mins	13.00-14.00
9	Workshop Session 3 ➤ Introduction ➤ Working in groups ➤ Feedback	Neil Rob Stephen	5 mins 60 mins 25 mins	14.00 – 15.30
10	Next Steps and Actions	Stephen	20 mins	15.30-15.20
11	Summary and Close	Cam	10 mins	16.00

Introduction to Grand Challenges

- At previous BOF's we have always discussed what are the future research needs
- To support Bridges Board research requests
- To support industry needs
- Fill gaps in guidance
- Act as a strategic roadmap for any incoming proposals
- We have considered and prioritised these needs in the past
- We have delivered significant benefits and published excellent guidance
- But there are some problems – collaborative funding, active partners, establishing procurement routes, establishing project manager, writing brief for work etc.

Introduction to Grand Challenges

- BOF 49 – Stephen, Rob and I were ‘volunteered’ to make some proposals for Grand Challenges for Bridge Owners
- We had a brainstorming session at HE offices in Bedford
- What is the ‘big question’ that we are trying to address
- Mapping out the bridge management process
- What are the aspirations in each topic area?
- Where are we now in each area?
- What are the challenges to achieve the aspiration?
- And crucially for today – **what are the gaps** that we need to fill with research, guidance, standards, training, quality assurance, communication and publicity etc.?

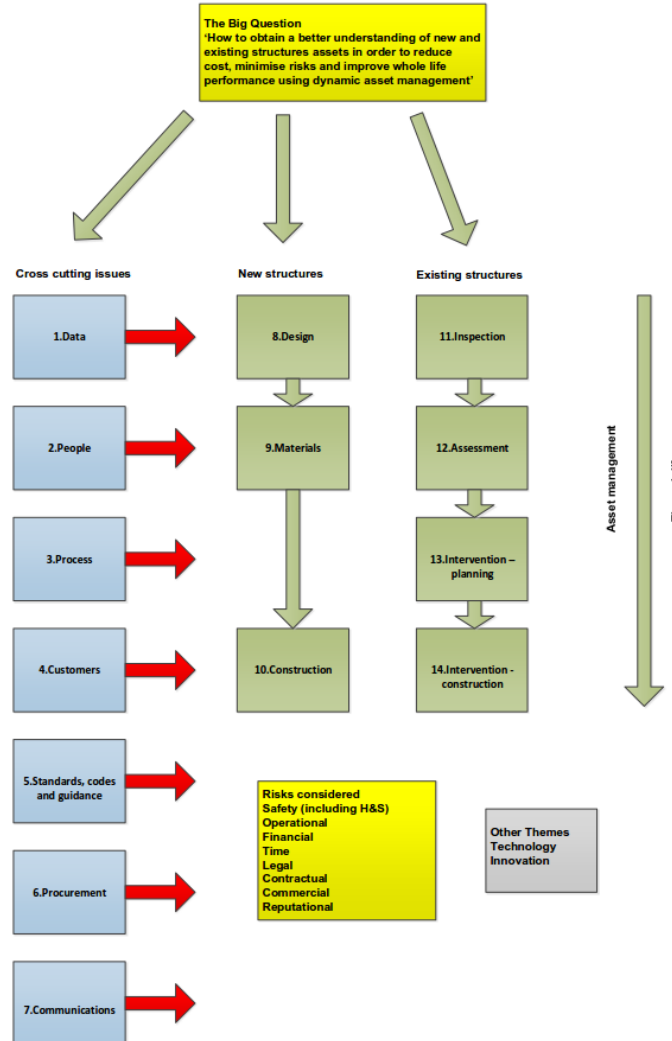
Introduction to Grand Challenges

The Big Question

‘How to obtain a better understanding of new and existing structures assets in order to reduce cost, minimise risks and improve whole life performance using dynamic asset management’

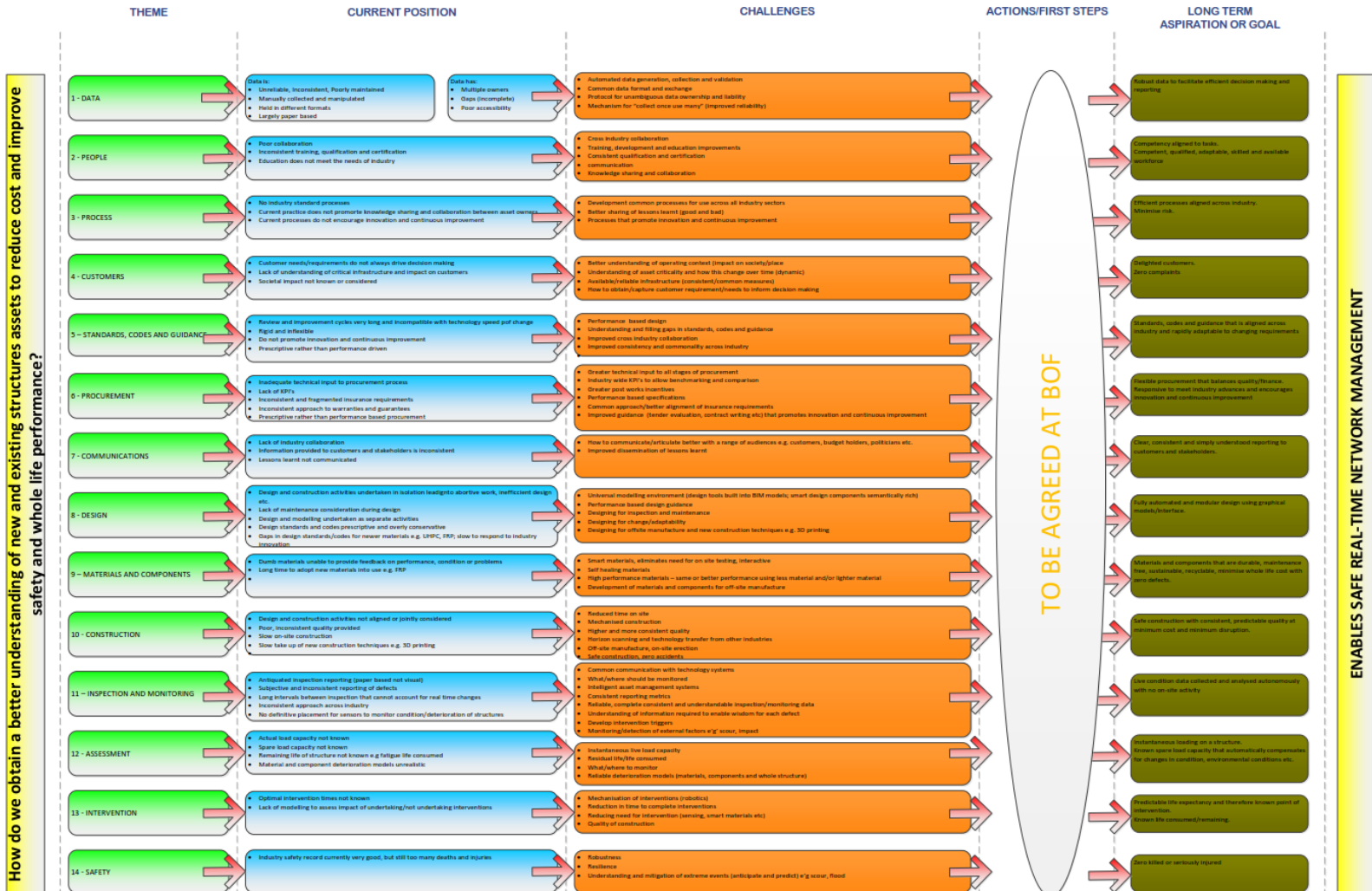
Grand Challenges Road Map

STRUCTURES GRAND CHALLENGES



Grand Challenges Road Map

BRIDGE OWNERS FORUM – GRAND CHALLENGES



How do we obtain a better understanding of new and existing structures assets to reduce cost and improve safety and whole life performance?

TO BE AGREED AT BOF

ENABLES SAFE REAL-TIME NETWORK MANAGEMENT

Workshop Introduction

- 3 work shop sessions
- Session 1
 - To review the two grand challenge documents and ensure we are all agree with the themes, baseline position and challenges
- Session 2
 - To agree the long-term aspirations and goals
- Session 3
 - To agree the intermediate steps required to achieve the long-term goal

Workshop Introduction

- 3 Groups
 - Facilitated by Neil, Rob and Stephen
 - Each group to nominate a note taker and a presenter to feedback

GROUP 1	GROUP 2	GROUP 3
Neil Loudon	Rob Dean	Stephen Pottle
Nick Burgess	Wayne Hindshaw	Graham Cole
John McRobert	Richard Fish	Jason Hibbert
Paul Fidler	Keith Harwood	Cam Middleton
David List	Nicola Head	Henry Dempsey
Jaqueline Mynott	Paul Thomas	Tomas Garcia
Huw Davies	Paul Monaghan	Andy Featherby
	Liam Duffy	

Workshop Session 1

- Aim of session:
 - To review the two grand challenges documents and ensure that the whole group is satisfied with the themes, current baseline position and challenges.
- All groups – all aspects
- 20 mins + 10 mins for feedback

Workshop Session 2

- Aim of session:
 - To agree the long-term aspirations and goals
- Points to consider:
 - Try NOT to be constrained by current technology or what you perceive to be currently realistic or achievable now.
 - Focus on the ideal scenario
 - A minimum 30 year horizon but longer if required
- Theme allocation
 - Group 1: 1, 4, 7, 10, 13
 - Group 2: 2, 5, 8, 11, 14
 - Group 3: 3, 6, 9, 12
- 60mins + 30mins for feedback

Workshop Session 3

- Aim of session:
 - To complete the steps in the Grand Challenges Road Map
 - Identify and record what work we know is being undertaken for each theme
 - Determine the first step/action for each theme
 - Identify how the first step may be delivered
 - Prioritise and pick top 3
- Points to consider:
 - A maximum 5 year timescale (preferably shorter for the first step/action)
 - Make actions S>M>A>R>T
- Theme allocation
 - Group 1: 1, 4, 7, 10, 13
 - Group 2: 2, 5, 8, 11, 14
 - Group 3: 3, 6, 9, 12
- 60mins + 30mins for feedback

S>M>A>R>T

SPECIFIC

MEASURABLE

ACHIEVABLE

REALISTIC

TIME BOUND

Next Steps and Actions

- Agree to 3 – 5 to concentrate on
- Allocate owners from BOF for each theme
- Agree how this will be progressed/disseminated
- What help is required?
- Include as an agenda for future BOF meetings?