

Broer – Bridges Working Group

PLAN FOR PERIODEN 1. JULI 2020 – 30. JUNI 2024

Management team

- Chairman: *Guðmundur Valur Guðmundsson, Vegagerðin, guðmundur.v.guðmundsson@vegagerdin.is*
- Secretary: *Magnús Arason, EFLA, magnus.arason@efla.is*

The action plan is based on the working group's "job description". The business plan is a concretization of the job description. It also shows the time course of the activities.

Working Group Objectives

The aim of the working group is to carry out the following initiatives and activities within the specified dates.

The Sustainable Development Goals, including targets, identified by the working group as particularly relevant to the group's activities and objectives are also described below.

	Activities and UN Sustainable Development Goals (SDGs) / Targets*	How will the group work with the activities and with the SDGs? **	Status***
2020 (1/11-2020)	Complete the Action plan / strategy for the group for 2020-2024	<ul style="list-style-type: none"> • Proposal by MA 	<ul style="list-style-type: none"> • Submitted in Draft 25.11.2020 • Revision 1 dated 08.02.2021 • Revision 2 dated 09.11.2021
2021-2024	Linking the three topics Climate-Digitisation-Asset management throughout the period Target 9.4 Target 12.5	<ul style="list-style-type: none"> • Even though the focus of each year's seminar (see suggested topics below) is one of the three topics it is intended that the working group considers the three topics in parallel throughout the 4 year period • Choice of seminar presentations for each year should reflect how the three topics interconnect if possible 	<ul style="list-style-type: none"> • Reflected in working group meeting discussions
2021 (1/11-2021)	This first year will focus on the Climate Focus on following Sustainable Development Goal / Targets (see attached SDG outline)	Bridge seminar with main focus on Climate planned for autumn 2021 (in a Covid free zone), possible topics: <ul style="list-style-type: none"> • For each country to summarize the status of carbon footprint calculations performed in connection with bridge design in public projects <ul style="list-style-type: none"> ○ who performs ○ tools used 	<ul style="list-style-type: none"> • Seminar not organised yet • Knowledge sharing has taken place in meetings, to be presented at seminar

	<p>Target 9.4 Target 12.2 Target 12.5 Target 12.7 Target 13.2</p>	<ul style="list-style-type: none"> ○ how does this affect the process / choice of alternatives ● Compare the carbon footprint of a "typical bridge" built in each country today and 30 years ago ● Status of environmental requirements in bridge constructions contracts in each country ● Critical review of requirements and regulations in each country with a view to opening a discussion on whether the regulations can possibly be better adapted to reduce overdesign and too much material consumption <ul style="list-style-type: none"> ○ Load regulations ○ Design requirements (eg elastic vs. plastic) ○ Material consumption e.g. cement content requirements ● Wooden bridges, how much cheaper are they in terms of carbon emissions 	<ul style="list-style-type: none"> ● No progress made on this, removed from plan ● Knowledge sharing has taken place in meetings, to be presented at seminar ● Knowledge sharing has taken place in meetings, to be presented at seminar ● Knowledge sharing has taken place in meetings, little initiative in the WG to go
<p>2022 (1/11-2022)</p>	<p>In year 2, the focus will be on Digitization</p> <p>Focus on following Sustainable Development Goal / Targets (see attached SDG outline)</p> <ul style="list-style-type: none"> ● Target 9.4 ● Target 9.5 ● Target 12.5 ● Target 13.3 	<p>Bridge seminar with main focus on Digitization planned for autumn 2022, possible topics:</p> <ul style="list-style-type: none"> ● How carbon footprint calculations can be set up in digital models / BIM models ● Share knowledge about the use of digital tools for inspections, condition assessments and surveys ● Use of smart models / artificial intelligence for analysing of inspection data ● Describe the process in which optimization in powerful analysis tools can be used to save material use 	<ul style="list-style-type: none"> ● Knowledge sharing to take place in meetings
<p>2023 (1/11-2023)</p>	<p>In year 3 , the focus will be on Asset management</p> <p>Focus on following Sustainable</p>	<p>Bridge seminar with main focus on Asset management planned for autumn 2023, possible topics:</p> <ul style="list-style-type: none"> ● Existing bridges - what regulations apply in each country ● Opportunities for life extension of bridges 	<ul style="list-style-type: none"> ●

	Development Goal / Targets (see attached SDG outline) <ul style="list-style-type: none"> • Target 9.4 • Target 12.5 • Target 12.7 	<ul style="list-style-type: none"> • Innovative methods for maintenance and rebuilding 	
Spring /summer 2024	Review – Climate, Digitization, Asset management	<ul style="list-style-type: none"> • Final conference / seminar <ul style="list-style-type: none"> ○ Review of the 3 topics 	<ul style="list-style-type: none"> •

* Mention is made here of the activities and objectives the group will work on during the period . Mention is also made here of the UN Sustainable Developments goals / Targets that the group will work on during the period .

** This describes how the working group specifically will work with their objectives and activities . It is also mentions how the group specifically will work with the relevant UN Targets

** * Here it is described how far the working group has come in realizing the objectives, and what activities have supported it.