Deliverable 3.1 – Working group on policy: goals and guidelines

PROJECT INFORMATION	
Project acronym	RIGHTWEIGHT
Project title	Novel advanced materials solutions for affordable lightweight to meet automotive and aerospace makers' needs
Start date	03/04/2020
End date	03/06/2023
Lead Partner	Saxion University of Applied Sciences – Thermoplastic Composites Application Center (TPAC)

Deliverable information	
Title	Deliverable 3.1 – Working group on policy: goals and guidelines Report including the representatives of the group, the operational procedures (e.g. telcos, meetings) and first benchmark per region on policy priorities and relevant directives and regulations
Version	FINAL
Release Date	24/06/2022
Work Package	WPT3 – One-stop interface & knowledge transfer
Lead Authors	NanoMicroMaterialsPhotonics.NRW Cluster c/o NMWP Management GmbH

Contents

This deliverable 3.1 stems from internal discussions with the RIGHTWEIGHT partners. This document summarizes the representatives of the group, the operational procedures (e.g. telcos, meetings) and a first benchmark per region on policy priorities and relevant directives and regulations.

Introduction and Objectives

This report gives a brief overview of the operational procedures and the structure of the working group on policy recommendations. In addition, the structure of the benchmark on environmental regulations and policy priorities is described. The benchmark itself is included in a separate document.

The objectives of the working group on policy recommendations are divided into three parts:

1. Communication of challenges and opportunities to regional authorities
2. Aligning regulation at regional/national/EU level (e.g. emissions, recyclability, circular economy)
3. Aiding the establishment of innovation policy instruments addressing lightweighting

For this purpose, the dedicated working group starts with a benchmark on policy priorities and relevant directives with the motivation to define novel recommendations and influence next generation of directives.

Structure and Operational Procedures of the Working Group

In the following subsections both the structure and the operational procedures of the working group are described.

Scope and Value Propositions

As mentioned in the introduction there are different objectives that need to be accomplished by the working group. Therefore, the scope of WPT3 Activity 3 is to **set-up** an interdisciplinary and cross-sectoral **working group** with experts from different institutions – e.g. science, industry and public authorities – within the five cross-cutting areas addressed in the RIGHTWEIGHT project (Figure 1). The output will be a **report on policy recommendations** for the next generation of lightweight directives.

Figure 1: Addressed cross-cutting areas within lightweight

The working group could be a basis for the **establishment of an interdisciplinary collaboration** and a cross-sectoral **knowledge transfer**. The members have the possibility to **determine focal points or priorities** in mid- and long-term regulations within lightweight design at European level through the report on policy recommendations. Thus, bringing the own point of view to the discussions and politics, such as current trends, developments and challenges, could help to overcome policy-related barriers, for example, in the field of sustainability or circularity.

Structure and Potential Representatives

It is planned to set-up a working group of in total 25 to 30 persons, which represents or covers:

- The two industries automotive and aerospace
- All five cross-cutting areas (see Figure 1)
- The three sectors: science/academia, industry/clusters/networks, regional public authorities
- The five countries of the RIGHTWEIGHT partners: Belgium, France, Germany, Italy, Netherlands

In order to achieve a better manageability of the working groups and to enable a targeted elaboration of the recommendations, a thematic division into three sub-working groups is proposed based on the addressed cross-cutting areas. Figure 2 shows the composition and structure of the working groups. The first and the fifth as well as the second and the third cross-cutting area are merged. However, there are still overlaps between the working groups that are considered in the elaboration of the recommendations.

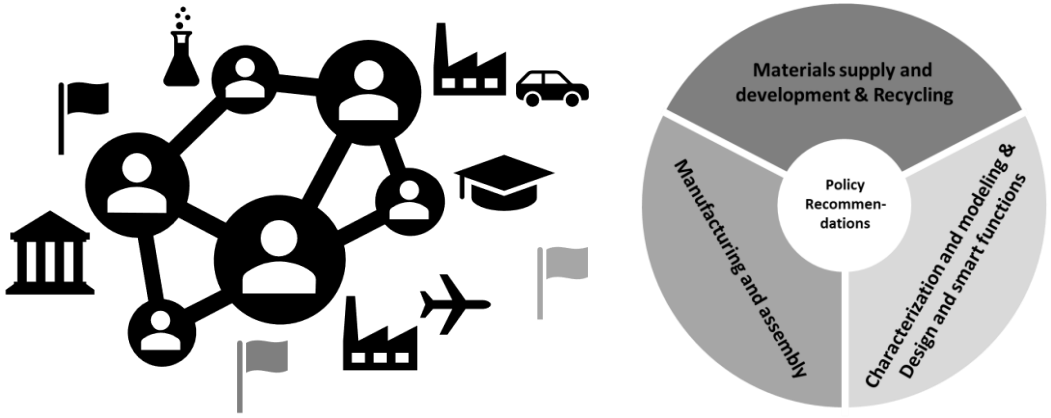

Figure 2: Representation of the structure and composition of the working groups

In Table 1 the **potential representatives of the working groups** are listed that covers the requirements mentioned above. In addition to the representatives from science, industry and public authorities, one representative of each RIGHTWEIGHT partner is involved to represent or disseminate information, developments or interests of their network partners. The **acquisition** of members is to be done trough the local contact points (**LCP**) using a standardized email template showing the value propositions.

Organization and Outputs

There will be a **kick off and a closing event**, both to get a common understanding of the goals and to bring together the results. The organization of the sub-working groups can be done in three different ways depending on the time availability and the number of commitments of the working group members: **virtual meetings, expert interviews or an online survey**. In the meetings, interviews or survey there are three main tasks:

- Analysis or **evaluation** of the current **regulations**, **directives** and **incentives** affecting **lightweighting** based on the benchmark on environmental regulations and policy priorities
- Giving insights into **challenges** that occur from matching these environmental **regulations** and **directives**
- Determination of **recommendations** what kind of policy actions are needed for the **next generation of directives** and establishing **new innovation policy instruments** addressing **lightweighting**

Table 1: List with the potential members of the working group

	Name	Position	Affiliation	Sector	Cross-cutting areas		Industry
1	Patrick Haberkern		IPEK	Science/academia	design and smart functions	characterization and modeling	both
2	Dr. Hagen Watschke		NMWP	Industry, clusters, networks	materials supply and development	design and smart functions	both
3	Sotiris Koussios		TPAC	Science/academia	design and smart functions	manufacturing and assembly	both
4	Freek de Bruijn		ANL	Industry, clusters, networks	manufacturing and assembly		automotive
5	Céciel Bedouet		Polymeris	Industry, clusters, networks	materials supply and development		aero
6	Serena Mingolla		IMAST	Science/academia	characterization and modeling	manufacturing and assembly	both
7	Gabriel Abedrabbo		FM	Science/academia	characterization and modeling	design and smart functions	both
8	Dr. Jürgen Wesemann	Manager Vehicle Technologies & Materials	Ford Motor Company	Industry, clusters, networks	manufacturing and assembly	materials supply and development	automotive
9	Jan Ludwig	Head of Vehicle Structures, Lightweight Design, Materials	RWTH Aachen University, Institute for Automotive Engineering	Science/academia	materials supply and development	design and smart functions	automotive
10	Dr. Thomas Hipke	Head of BU Lightweight and Textile Technologies and Head of Working Group 1 within the ELCA network	Fraunhofer IWU	Science/academia	materials supply and development	manufacturing and assembly	automotive
11	Wolfgang Heidreich	Head of Technology - Research - Standards	Aluminium Deutschland e.V.	Regional public authorities	materials supply and development	recycling	both
12	Dr. Andreas Baar	Head of WG New Technologies and Materials	Initiative Lightweight Germany	Industry, clusters, networks	materials supply and development	manufacturing and assembly	automotive
13	-	-	ELCA network	Industry, clusters, networks	all		automotive
14	Dr. Jan Diemert	Deputy Head of Department Polymer Engineering	Fraunhofer ICT	Science/academia	materials supply and development		
15	Rajarajan Ramalingame	Head of Working Group 3 (ELCA network)	TU Chemnitz, Mess-/ Sensortechnik, Leiter Nanokompositsensoren	Science/academia	design and smart functions		
16	Katharina Schoeps	Head of Working Group 6 (ELCA network)	Saxony Automotive Supplier Network (AMZ)	Industry, clusters, networks			
17	N.n.		RVO	Regional public authorities	manufacturing and assembly	recycling	both
18	N.n.		UPCM	Regional public authorities	manufacturing and assembly	recycling	automotive
19	N.n.		M2i	Science/academia	materials supply and development	recycling	both
20	Amaury CORNILLEAU		Groupement Plasturgie Automobile				automotive
21	Christel DENIS		Aerocentre				aero
22	Ben Drogt		BIINC				
23	Prof. Emeritus Adriaan Beukers		XS4AI				
24	Cyril Wentzel		Entzel Dynamics				
25	Isabel Van de Weyenberg		Flanders Make				
26	N.n		Voka				
27	Vito Guido Lambertini	CRF - Materials Engineering Methods and Tools	Stellantis	Industry, clusters, networks	design and smart functions	characterization and modeling	automotive
28	Salvatore De Nicola	Senior Customer Engineer EMEA	Solvay	Industry, clusters, networks	materials supply and development	design and smart functions	aero

Timetable and Milestones

In order to set-up the working group and to elaborate a report on policy recommendations different activities are needed. The timing of these activities and corresponding milestones is represented in below in Figure 3.

Activities	2022										2023		
	03	04	05	06	07	08	09	10	11	12	01	02	03
Set-up of the working groups – Contacting in 06/22					MS1								
Determination of organizational procedures													
Benchmark on environmental regulations				MS2									
Working group meetings on policy recommendations										MS3			
Final Report												MS4	

- **MS1**: Possible candidates – covering the different sectors and cross-cutting areas – have been identified, contacted and acquired for participating in the working groups; Decision for operational procedure, e.g., telcos, meetings, survey, interviews
- **MS2**: Report on the benchmark of environmental regulations and operational procedures of the working group has been finished
- **MS3**: Meetings of the different working groups have been done and policy recommendation elaborated or defined
- **MS4**: The report including the benchmark and the directives or recommendations has been written and provided to the EC

Figure 3: Timetable and milestones

Benchmark on Environmental Regulations and Policy Priorities – Structure

The benchmark itself is included in a separate document. This report should only give an overview of its structure and the responsibilities for the per region benchmark. These are shown in Figure 4.

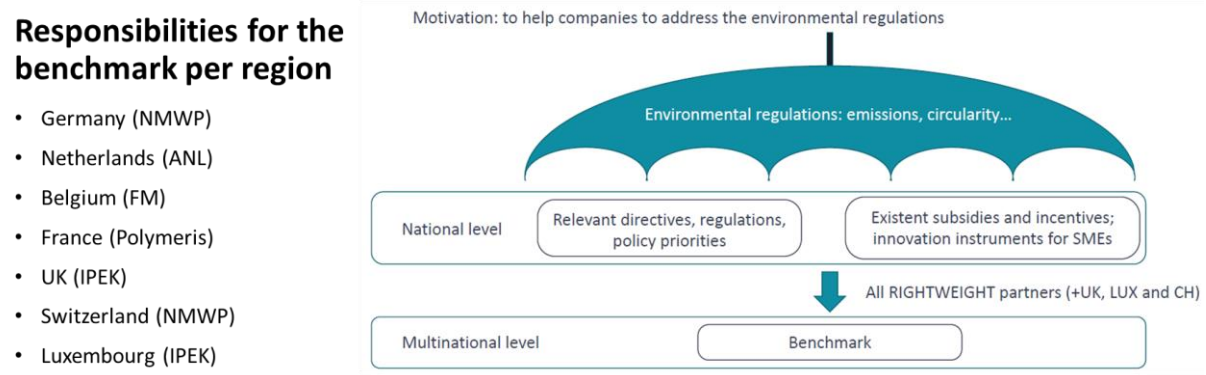

Figure 4: Structure of the per region benchmark on environmental regulations and policy priorities affecting lightweighting