



Building and construction division: recap on last year and way forward



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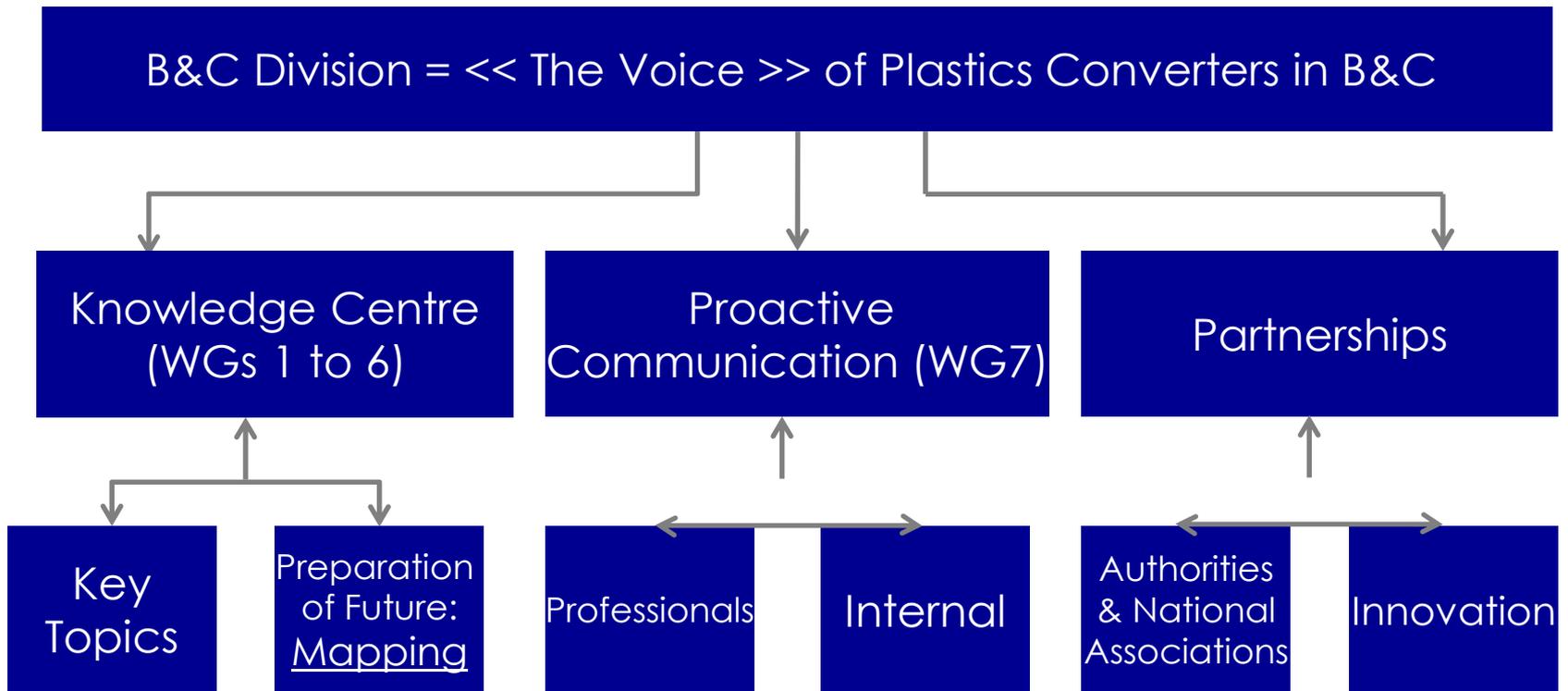
Vision and Mission

Vision:

- **Plastic is to become** the most material of choice for Building & Construction PRODUCTS in Europe within the next 5 to 10 years

Mission:

- Help create a favorable and sustainable trading Environment for Plastics Converters in Europe
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Main objectives – B&C division

1. Monitoring and facilitating the economic resilience and deployment of our industry
2. Ensuring and demonstrating the social sustainability of our industry
3. Ensuring and demonstrating the environmental sustainability of our products and solutions

Key:

-  Project on track
-  Delays, need to speed up
-  Unsatisfactory result

-  New
 -  Priority: imminent threat
 -  Priority: opportunity
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Monitoring and facilitating the economic resilience and deployment of our industry

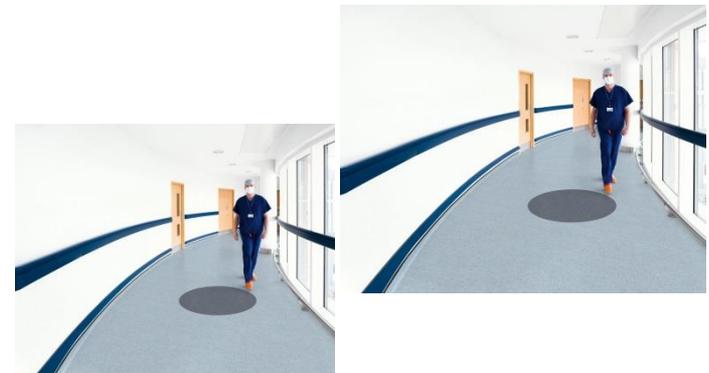
- **Knowing the European market**
 - Partnership with European Builders Confederation
 - Contacts with president to strengthen relation
 - How do our products fare (development of construction markets at EU and National level)
 - Competing materials analysis
 - New activity to be developed
 - **Predictability on raw materials : Polymer Alliance**
 - **Preventing barriers to trade**
 - Standardization : WG 4 CE marking, WG5 fire , WG 6 Dangerous substances in CPR, WG2 : standards for recycle
 - **Ensuring growth enabling regulation** 
 - Restriction under REACH (fast track, recycle) 
 - **Supporting innovation**
 - Partnership with ECP4 , more projects to be made possible through a coherent strategic vision
 - **Renovation?**
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- **SLIPSAFE is a large scale collaborative project funded by the European Commission**, addressing the challenge of **reduction of slip-accidents on wet floors**, in particular, resilient flooring used in private and public buildings. The project aims to yield key innovation for the next generation flooring, and fits within the increasing focus on prevention of fall accidents.
 - The SlipSafe consortium is comprised of twelve European organisations including four trade associations, three SMEs and five RTDs.
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- A twelve strong consortium has secured €2,070,919 of EU funding to improve the antislip properties of general purpose flooring under dry and wet conditions whilst still maintaining properties such as durability, ease of installation, optical appearance, ease of cleaning and low cost maintenance.
- It is expected that the technology developed within SlipSafe will not affect the service life of the floorcoverings and keep the easy cleaning characteristics. Furthermore, a new test method will be developed to allow the monitoring of slip and a life cycle analysis performed to assess the environmental impact of the new flooring.



- The three year project, called SlipSafe, is part funded by the European Commission under the Seventh Framework Programme and proposes to combine new intelligent material formulations and processes to gain control of the interface between floorcoverings and the pedestrian. The new technologies will allow the use of the materials in the flooring manufacture as well as an after-treatment process to renew existing or worn out flooring.





- European Plastics Converters (EUPC)
- Asociación Valenciana de Empresarios de Plásticos (AVEP)
- The British Plastics Federation (BPF)
- European Resilient Flooring Manufacturer's Institute VZW (ERFMI)
- GTE Industrieelektronik GMBH (GTE)
- Nanorioja SL
- Smithers Rapra and Smithers Pira Ltd (SRSP)
- Fraunhofer-Gesellschaft Zur Foerderung Der Angewandten Forschung EV (ICT)
- Asociación de Investigación De Materiales Plásticos Y Conexas (AIMPLAS)
- Fundacion Tekniker (TEKNIKER)
- Gospodarsko Interesno Zdruzenje Grozd Plasttehnika – Giz Grozd Plasttehnika (PCS)
- TBA Protective Solutions (TBA)

For further information on the SlipSafe project, please contact Estela Izquierdo at maria.estela.izquierdo@eupc.org or visit the website at www.slipsafe.org

- EU project co-funded by the CIP Eco-innovation initiative under Eco/12/332833 number with duration until 31 December 2016.
 - **Production of a new bio-based plasticiser for soft PVC by chemical modification of cardanol.**
 - Cardanol is an industrial grade yellow oil obtained by vacuum distillation of cashew nut shell liquid. It is a natural derived by-product of the food industry therefore does not contribute to the subtraction of resources to food chain.
 - Consortium partners
 - [KOMMI - coordinator](#)
 - [Serichim](#)
 - [Universita del Salento](#)
 - [European Plastics Converters \(EuPC\)](#)
 - Suitable application to be defined but excluding food contact applications
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- The process (a combination of acetylation and epoxydation) has been scaled up to pilot scale.
 - Tests proved process safe, stable and able to control reaction adequately to produce selected quality with consistency.
 - Good physical/mechanical properties
 - Dry blend formulation
 - Inquiry on substance identification submitted to ECHA with positive feedback
 - No patent infringement to our knowledge
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- Testing the Placard plasticiser with interested users
 - Production gasket with soft PVC and determination of physical and mechanical properties (April 2016)
 - Recyclability test (Q2 2016)
 - Test of potential hazardous properties (April 2016)
 - LCA analysis (July 2016)
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Interested to test or to follow the progress?

- As a plasticiser producer
 - whether possible to produce on industrial scale
 - to enlarge portfolio with an environmentally friendly bio-based plasticiser
- As a converter
 - whether suitable for your application
 - whether selected parameters are met
 - to meet special customer needs
- As a cardanol derivatives manufacturer
 - to enlarge portfolio

Contact us and we will provide you with samples or with more information at nikola.svobodova@eupc.org or www.placard-ecoinnovation.eu

Ensuring and demonstrating the environment

- Providing verifiable and transparent information on the environmental performance of our products
 - WG1 : environmental product declarations (incl. PEF) 
study on plastics toxicity in LCA
 - Ensuring strong recycling of plastics in construction and being a key actor for the success of circular economy
 - WG2 barriers to recycling and project to enable 
continued use of legacy additive
 - Promote positive aspects of recycling in our products 
(PVC)
 - Gathering of statistics
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Addressing legacy additives issues/removing barriers to trade

- Issues
 - Classification of waste
 - Upcoming restriction/authorization for lead compound
 - Studies developed to ascertain
 - Migration and bioavailability of legacy additives from PVC matrixes (FABES, Arche)
 - Exposure of workers (biomonitoring)
 - EuCertplast and traceability
 - Development of standards for recyclate use
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Ensuring and demonstrating the social sustainability of our products and solutions

- Corporate Social Responsibility
 - Jobs created
 - To monitor prerequisite for growth WG statistics
 - Safety of workers
 - Project on exposure of workers to lead in recycle
 - Transfer of best practices
 - Reporting on accidents? WG statistics?
 - Education and skills
 - A workshop organized in June 2015, but then no follow-up by division. Is it a topic interest/a priority for the division?
 - Safety of users and installers
 - Fire WG developing guidelines on fire and smoke, investigation into fire toxicity
 - Standardization on dangerous substances (WG6 DS and WG1 sustainability)
 - Renovation?
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What are our key performance indicators for each topic?

Economic	Social	Environment
Knowing the market Partnership with installers Trend Competition	Corporate social responsibility	Verifiable and transparent information on environmental performance of products
Predictability raw materials	Jobs created	Ensuring strong recycling of plastics in construction
Preventing barriers to trade	Safety of workers	
Ensuring growth enabling regulation	Education and skills	
Supporting innovation	Safety of users and installers	
Renovation	Renovation	Renovation

Beyond meeting requirements: a strategic vision

- All the above ensures we are **meeting basic work requirements**. This should be refined per sector (sectoral mapping)
 - We want to go beyond and create a **roadmap for our industry for the next 10 to 20 years**
 - How may our construction plastics **solution meet megatrends** ? (e.g. Demographics and population ageing, mitigation and adaptation to climate change...)
 - Workshop to be organized in July
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Thank you for your attention

