STUDENT CONTEST about Active and Intelligent Packaging

COST FP1405

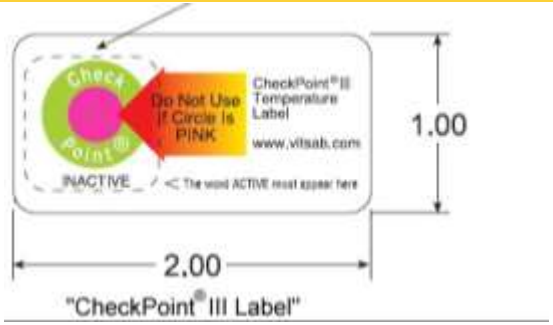
ACTIVE AND INTELLIGENT FIBRE-BASED PACKAGING – INNOVATION AND MARKET INTRODUCTION

22th November 2016, Slovenia

cost
EUROPEAN COOPERATION IN SCIENCE AND TECHNOLOGY

COST is supported by the EU Framework Programme Horizon 2020

A&I Packaging



"CheckPoint® III Label"

UNBROKEN COLD CHAIN

BROKEN COLD CHAIN

TRACEO®
freshness reloaded

If the product is properly stored, TRACEO® is transparent, the product is fresh, the barcode can be read at the checkout.

If the product is badly stored, TRACEO® is pink, the product is no longer edible, the barcode is concealed and can't be read at the checkout.

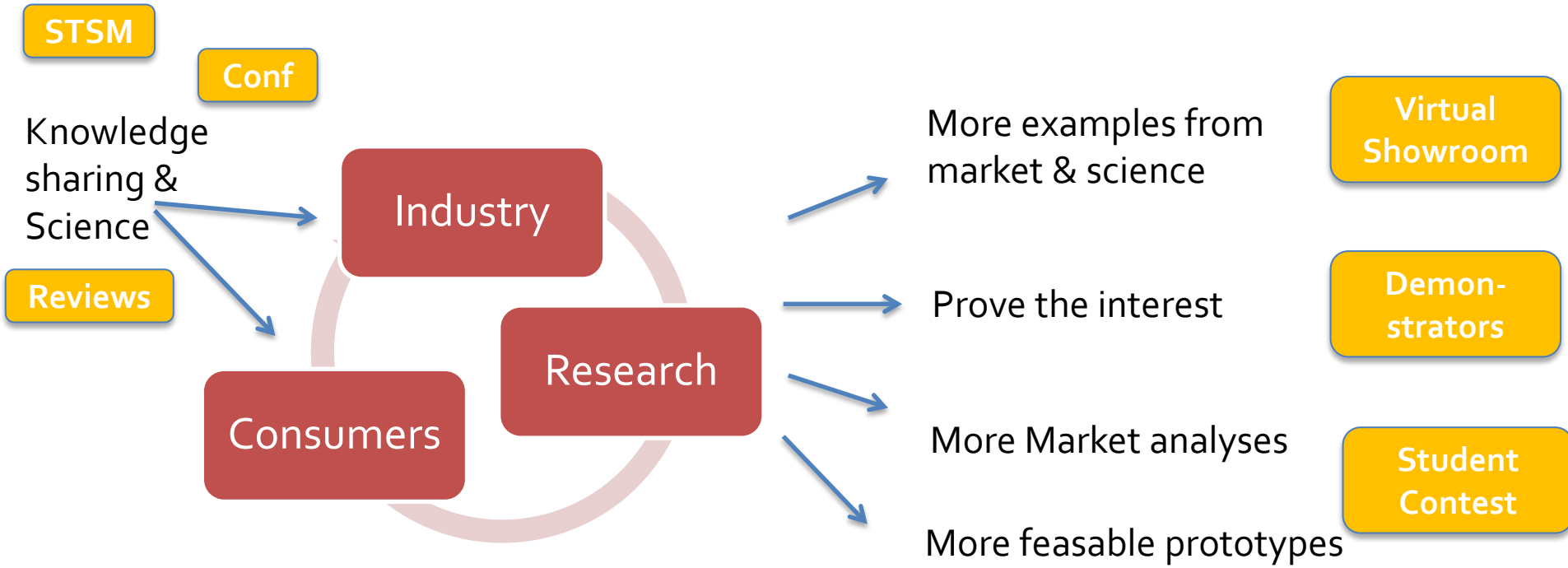
ActInPak

Main Objectives of ActInPak

COST FP1405

ACTIVE AND INTELLIGENT FIBRE-BASED PACKAGING – INNOVATION & MARKET INTRODUCTION

The main objective of the Action is to develop a knowledge-based network on sustainable, active and intelligent fibre-based packaging in order to overcome current technological, industrial, and social limitations



Student CONTEST

COST Action FP1405
Active and intelligent (fibre-based) packaging – innovation and market introduction

ACTINPACK STUDENT CONTESTS

"Demonstrators" or "Technological & economical analyses"

General information and application rules.

What is ACTIN'PACK

Actin'Pack is a COST Action focused on active, smart and intelligent fiber-based packaging solutions; despite the huge potential showed by such products in the optimization of supply chain, improvement of the shelf-life and development of consumer consciousness in food utilization; very few of the potential solutions have been able to reach the market.

The main objective of the Action is thus to fill the gap among the research innovation, industrial production and commercial exploitation of new products by conducting research actions which encompasses not only the development of scientific and technical solutions, but also the analysis of opportunities for and obstacles to market introduction. The key technical, social, economic and legislative factors to focus on, and possibilities/limitations for successful market introduction will be identify by providing an open, multidisciplinary platform for the complete paper and board packaging value chain to share knowledge and solutions among partners.

What is the Student contest (SC)

The two student contests (SC), are networking tools aimed at increasing collaborations between European students, researchers and companies in the field of active & intelligent packaging.

SCs are student activities fostering collaboration between student and partners, contributing to the scientific objectives of the Actions, allowing participant to learn new techniques, communicating on the field.

They are particularly intended for young students in Bachelor or master degree.

Student groups should be:
- ✓ from a Participating COST country
- ✓ available to present their results in an Actinpak conference

Each SC "winner" will be invited in the next ActinPak meeting to present their work.
They could have networking actions. Their CV will be distribute to all partners (more than 100 contacts in industry and university)

Participants	
Country	**Application Date**
Austria	17/12/2014
Belgium	10/02/2015
Bulgaria	10/12/2014
Croatia	12/01/2015
Czech Republic	16/02/2015
Denmark	05/12/2014
Finland	09/12/2014
France	03/12/2014
Germany	05/12/2014
Greece	16/02/2015
Hungary	28/11/2014
Ireland	07/04/2015
Italy	30/01/2015
Lithuania	13/04/2015
Luxembourg	08/12/2014
Netherlands	24/11/2014
Norway	23/03/2015
Poland	05/12/2014
Portugal	04/02/2015
Romania	30/01/2015
Serbia	20/02/2015
Slovakia	15/03/2015
Slovenia	24/11/2014
Spain	10/12/2014
Sweden	26/01/2015
Switzerland	16/03/2015
Turkey	16/03/2015
United Kingdom	18/11/2014
Total	**28**
COST International Partner Countries	
Institution Name	**Country**
SCION	New Zealand
University of Tokyo	Japan

COST Action FP1405
Active and intelligent (fibre-based) packaging – innovation and market introduction

The deadline and allowed funding for the different SC are reported below:

	Deadline	Group of student	Deliverable
SC1 – "Demonstrator"	1st of June 2017	Maximum 8 students	1 report 1 ppt presentation-1 video 1 demonstrator
SC2- "Tech & eco"	1st of June 2017	Maximum 2 students	1 report 1 ppt presentation

Application and evaluation procedures.

Applicants should register by sending an e-mail to Julien.Bras@grenoble-inp.fr before the 1st of April 2017

The following information has to be provided during the registration procedure:
- the type of student contest (SC1 or SC2);
- the name of student group;
- the title of the project;

The Steering Group committee(Chair, Vice chair, STSM leader) will evaluate the different proposals on the base of the relevance of the topics addressed and of the proposed activities with respect to the COST action focus. Selection will be made at least 1 month after the deadline and will be made based on the following criteria -for SC1- demonstrators:

a) Methodology and project management
b) Technology understandings
c) Quality of demonstrator
d) Outlook and perspectives and challenges for Actinpak

-for SC2 – Tech & Eco:

a) Methodology and market analysis tool
b) Technology understandings
c) Quality of document and of scheme
d) Outlook and perspectives and challenges for Actinpak

The possibility to fund additional SC will be discussed within the Steering committee depending on the budget available.

STUDENT CONTEST

What it is ?

The two Student Contests (SC) are networking tools aimed at increasing collaborations between European students, researchers and companies in the field of active & intelligent packaging.

	Deadline	Group of student	Deliverable
SC1 – "Demonstrator"	1st of June 2017	Maximum 8 students	1 report 1 ppt presentation-1 video 1 demonstrator
SC2 – "Tech & eco"	1st of June 2017	Maximum 2 students	1 report 1 ppt presentation

To Who ?

They are particularly intended for young students in Bachelor or Master Degree. Student groups should be:

- from a Participating COST country
- available to present their results in an ActInPak conference

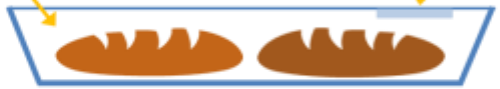
Demonstrators

Indicator & Detection of bacteria

Plastic packaging
for example for meat

Modified atmosphere

Oxygen scavenger applied as a label on interior of packaging



Plastic packaging
for example for pre baked bread

Ethylene scavenging inner layer

Antibacterial / anti mould Corrugated layer sandwiched between inner and outer layer

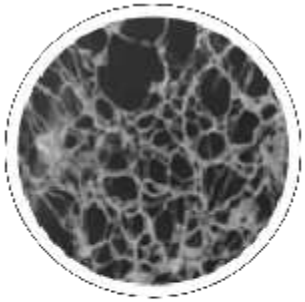
Corrugated box
for example for fruits

SC1 - Examples

InoFib

From Nature to the Future

INOPACK



SC2 - Examples

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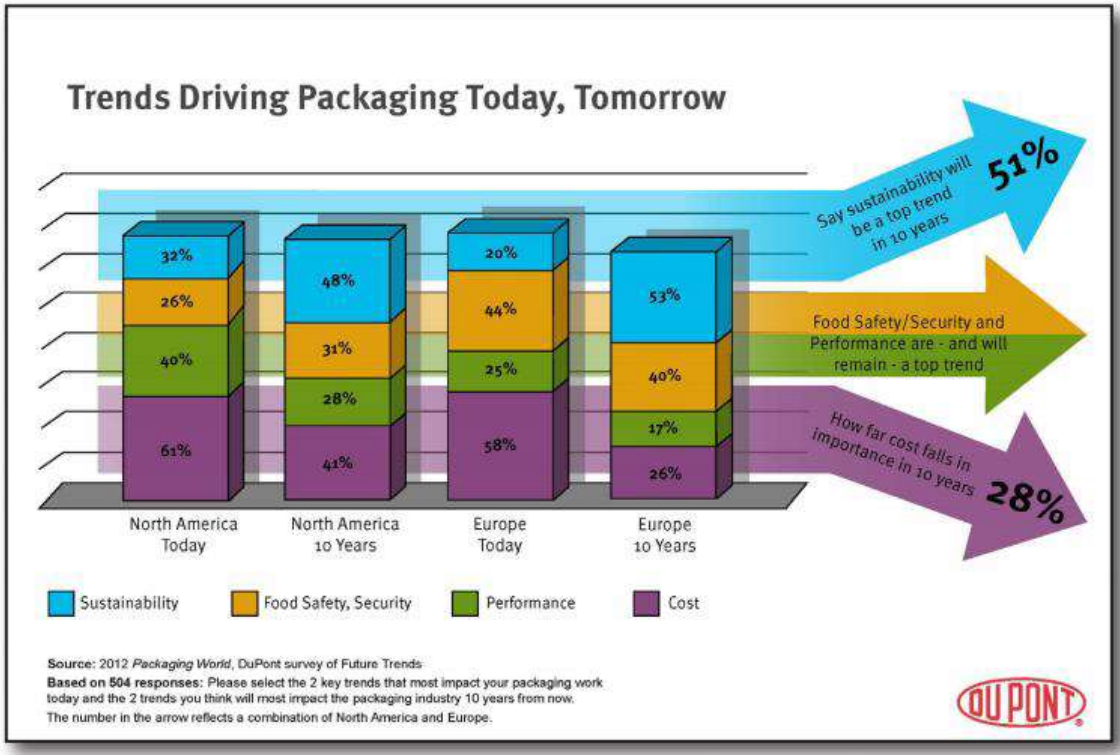
Nanocellulose: a solution to improve oxygen scavenger in active packaging

CAZABAN Oihana – VIEILLE Martin

10/05/2016



SC2 - Examples

Nanocellulose: a solution to improve oxygen scavenger in active packaging

CAZABAN Oihana – VIEILLE Martin
10/05/2016

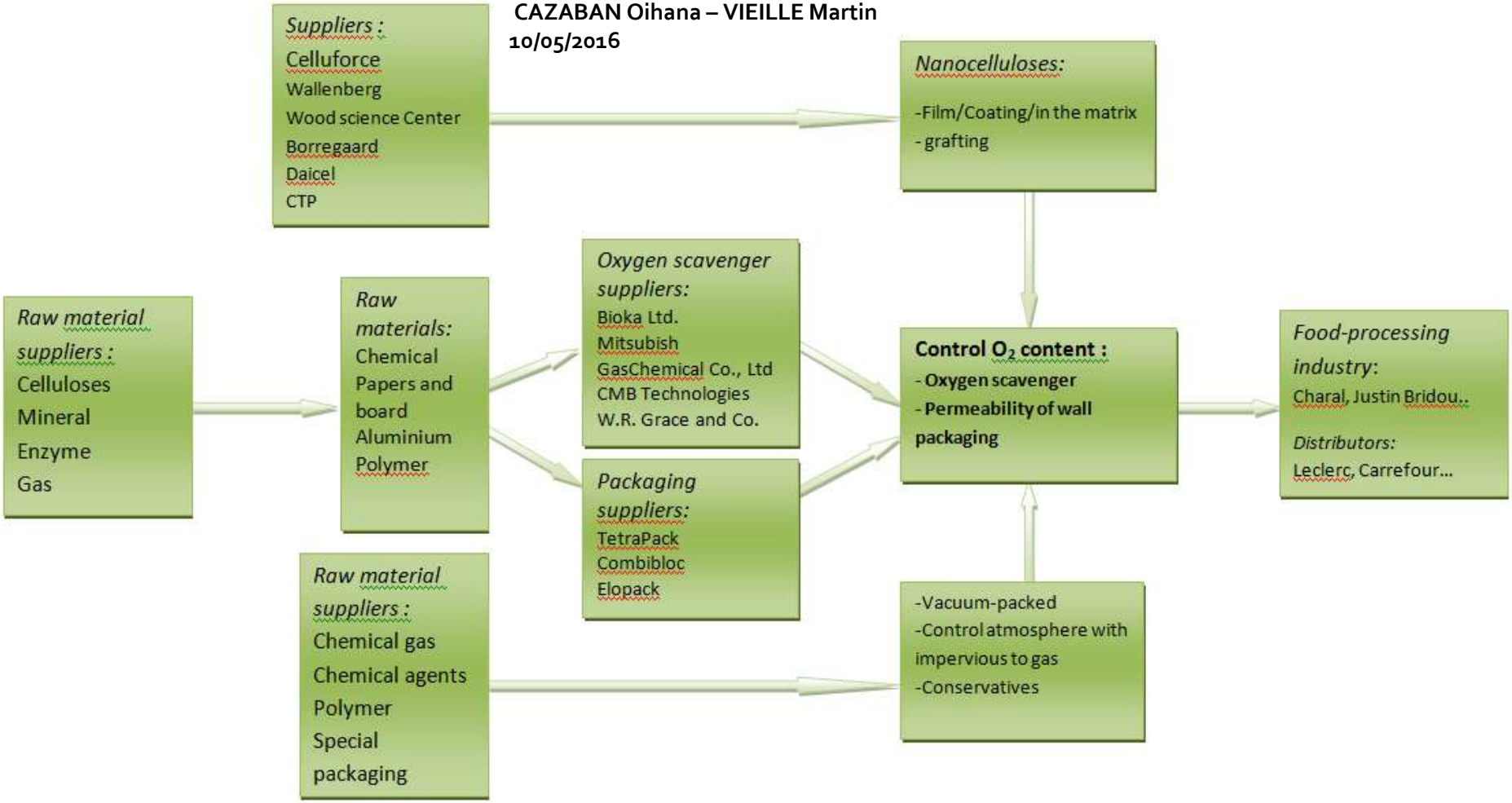


Figure : Porter's diagram for the use of oxygen scavengers coupled with nanocellulose

STUDENT CONTEST

Applicants should register by sending an e-mail to Julien.Bras@grenoble-inp.fr before the 1st of March 2017.

The Steering Group (Chair, Vice chair, STSM leader, WG leader) will evaluate the different proposals on the base of the relevance of the topics addressed and of the proposed activities with respect to the COST action focus. Selection will be made at least 1 month after the deadline and will be made based on the following criteria

-for SC1 – demonstrators:

a) Methodology and project management
b) Technology understandings and development
c) Quality of demonstrator
d) Outlook and perspectives and challenges for ActInPak

-for SC2 – Tech & Eco:

a) Methodology and market analysis tool
b) Technology understandings
c) Quality of document and of scheme
d) Outlook and perspectives and challenges for ActInPak

STUDENT CONTEST

Interest ?

Each SC "winner" will be **invited in the next ActInPak conference** to present their work.

They could have networking actions during this conference and have access to last up-dated science in the field

Their CV will be distributed to all partners (more than 100 contacts in industry and university).

Their work (and CV) will be also on-line in ActInPak website.

ACKNOWLEDGEMENT

This work is based upon work from COST Action FP1405 ActInPak, supported by COST (European Cooperation in Science and Technology)

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