

COST FP1405 ActInPak

Introduction to the network

- Sanne Tiekstra, Chair

COST FP1405

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

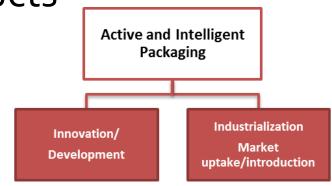




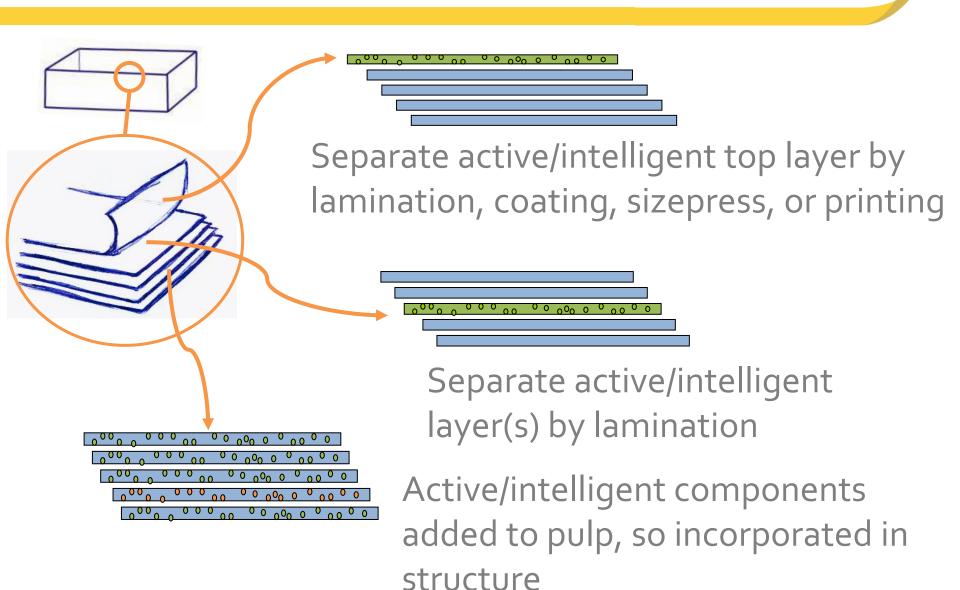
ACTINPAK IS:

A pan European network of leading experts of over 100 institutes, universities, companies from 34 countries with one goal: to define innovative solutions and identify opportunities and obstacles in market introduction for active and intelligent packaging in the area of fibre-based products

March 2015 – April 2019



WE HAVE A DREAM...



6 April 2016, Munich

> 20 YEARS OF R&D...





TOXDTECT



































...IN ACTIVE PACKAGING

	M		i Gas Chemi ppan Printi	ical Company	T		The State of the S	comn	200-1	
		To	nnan Printi		Japan	/	Trade Name	Ann	rercial Antimicrohia	_
			PPani i iilli	ng Co.	Japan	/ 8	Piatech Silvi Film	Compounds	Funct Manufacturer	kaging Products
		Keplon Co.					okamoto Super	Silver oxide Silver oxide	Manufacturer	and
	•					/ Ap	ania-	Oxide	Nimii Kasai o	Refs.
	Oji Kako Co.					1	omic	Silver zeen		Brody et al. (200 Brody et al. (200
	Powdertec					Clear	ekiller Naid		Sangi Co. (Japan)	Brody et al. (200 Brody et al. (200
		U	eno Seiyak	u Co.	Japan	Agion		ilver zeet K	(Japan) Ceramice	Brown 12001
		Dai Nippo	on	Japan	An	Sil	ver (K	runghyang (Japan)	Brody et al. (2001)	
		Bioka Lt		Findland	MicroFre	9		ON Technologies LLC	Brody et al. (2001) Cho et al. (2001)	
	Standa Atco Multisorb Technologies Inc. Johnson Matthey Plc					indland Silver, copper Outcome Outcome				5. (2009)
						/	Silver	9	goine " "WA	
						Surfacine	zirconii phosph Silvo			
						lonpure	wer he	Nide Surfact	(2 Ve	
				•		<i>Aicroban</i>	Silver/gla	ishizu	Development Co. Verm	
					Aci	Initized, tigard,	Triclosan	Micros	Co. (Jan. (200)	Neiren et al.
	Forn	nat	Tradename	Manufacturer		niprot a-Fresh	Triclosan an	d Sooth	oducts Co (2000)	eiren et al
		Multi layer	Bioka®	Bioka Ltd	Fi / Wasa	100	Triclosan and	(Switzerland)	Clariant Brody	9t al. (2001)
	Film	Laminate	OS2000®	Sealed Air Corporation	. / w-	ouro	All 1	Thom	Vermeire (2002), s	(2001)
Oxygen		Multilayer	ZERO2™	CSIRO and VisyPak	A Wasa	Power	isothiocyanate Ally	(Canada) Rese	arch Assoc. (2002), s et al. (200	n et al.
			Shelfplus	Ciba Specialty chemicals	St / MicroGa		Ally "Ocyanate	Green Cross Co Sekisui Plan	et al. (200 Vermo:	D3a) —
cavenger	Concentrate		Amosorb®	Amoco Chemical	7	erde	isothiocyanate	Sekisui Plastic Co	(Japan) (2002)	et al
		Multilayer	Oxyguard™	Toyo Seikan Kaisha Ltd.	Take Gua	tra o	Clove and thers			/
	Closure		Celox™	Grace Darex Packaging Technologies	Anti-	B	amboo	Rhone-Pour	Brody et al.	(2001)
	Liner			Grace Darex Packaging Technologies			ract 7	Rhone-Poulenc (U.	SA) et al. (2)	noate /
		Multilayer	Zeomic®	Sinanen Zeomic Co. Ltd.	Ageless SE	Eth	anoi	CO. (.la-	Brow	ion
1	Concentrate		Agion	Agion Technologies		Silva	Fre	ound Inci-	Brody et al. (2	001)
				E. I. du Pont de Nemours and Company			Miss	ound Industrial Co.	ody et al. (20	- / 1
timicrobial -			Microban®	Microban Products	Microatmosph	Antibio	Otion (Jan	Goshi Gas	Smith	· · · · ·
	Extract		Citrex™	Quimica Natural Brasileira			Micro	Science Tech Co.	C 21. (198	nonium propio
-			Nisaplin®	Integrated Ingredients	Grape Guard	dioxide	e (Kore	a) Tech Co	of oet al. (2000)	
	Film		MicroGard™	Rhone-Poulenc	Guard				Han (
			Piatech	Daikoku Kasei Co.	Uvasy	Sulfur dia	xide Techno	West Research (USA), Bernard logies Inc. (USA)	Han and Moon (2002)	/
_	0-1-1-4-5					Sulfur diox	Quimica	(USA), Bernard logies Inc. (USA) Osku S.A. (G	Brody et al. (2001)	/
7	Table 1-I	.4. Curi	rent active	e packaging commercia	anz	diox	ide Gran	ogies Inc. (USA) Osku S.A. (Chile)		he
				_			apetek	(S. Africa)	Scully and Horse	
				packa	aging mate	erial.			Horsham (2007) Scully and	
									Scully and Horsham (2007)	

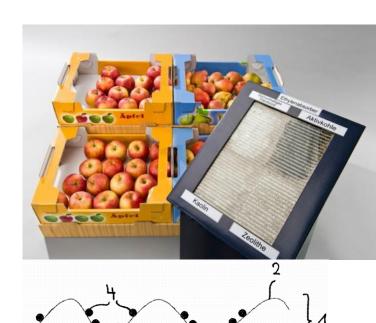
...IN ACTIVE PACKAGING











© SCA Packaging

... AND PRINTED INTELLIGENCE



6 April 2016, Munich

HAS LED TO 1 CONSUMER PRODUCT?*



Testimonials

"The Miracle Paper"
THE WASHINGTON POST

"Ingenious"
THE NEW YORK TIMES

"The best *non-diet* diet tip we've ever heard"

OPRAH MAGAZINE

"We tried it, & it works!" PREVENTION MAGAZINE







6 April 2016, Munich

WHY THIS ACTION?

 Most developments are plastic based. Development of integration into paper based products.

2. So many examples, but so little evidence of succesful (B2C) market introduction in Europe. Why?

IMPORTANCE OF THIS ACTION











OUR ACTIVITIES

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 that hinder the wide deployment of existing and newly developed solutions in market Industry applications.

Research

IMPLEMENTATION OF KNOWLEDGE

uncertainty

clearness/focus



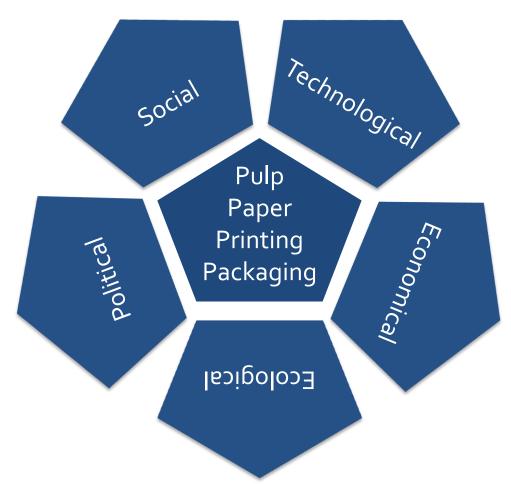
investigate & understand

design (business model) **concepts**

implement
(business model)

SUCCESSFUL INDUSTRIAL INCORPORATION

depends on several factors:



SECONDARY OBJECTIVES

- Direct future innovations and contribute to existing development efforts into scientific/technical research into fibrebased materials, new additives and techniques for active and intelligent functions;
- Identify market demands, possibilities and any obstacles to market introduction of active and intelligent fibre based packaging;
 Identify the technical limits and opportunities for development of
- Identify the technical limits and opportunities for development of active and intelligent fibre-based packaging;
- Identify market demands and supply chain challenges to ensure easy introduction of smart packaging;

 WG4.
- Identify sustainability, health and safety issues:
- Disseminate knowledge to industry and society hd dissemination

CORE GROUP



Chair Sanne Tiekstra NL



Vice-Chair Julien Bras



STSM Coordinator Marco Giacinti



WG1 Selçuk Yildirim CH



WG₂ Johanna Lahti



WG₃ Greg Ganczewski



WG4 David Ravnjak & Tadeja Muck





KTC/IIC
Johannes Bergmair &
Victoria Heinrich



Editorial Board
Diana Gregor-Svetec

PARTICIPANTS



>200 participants from 30 EU countries and 7 international partner countries



INDUSTRY VERSUS SCIENCE

Action aims at active involvement of complete value and supply chain

 Currently: 47 companies from 16 different countries, ranging from large to small









































Would like to participate?

Active participation of all partners is necessary to create a successful achievement of goals.

Industrial partners are key to the network to be able to identify the issues in market uptake.

Join us via our website:

http://www.actinpak.eu/members/become-a-member/

Would like to participate?

Add your product / development to our Virtual showroom.

Send pictures with some info to:

s.tiekstra@bumaga.nl



CONTACT DETAILS:

s.tiekstra@bumaga.nl

+31 6 1358 8739

COST FP1405

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





COST is supported by the EU Framework Programme Horizon 2020