



## K matchmaking

28 and 29 October 2010 at K 2010 in Düsseldorf



# Catalogue

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## of Technology Opportunities

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**Enterprise Europe Network  
NRW.Europa  
Bismarckstraße 28  
45470 Mülheim an der Ruhr  
[www.brokerage-events.eu/K/](http://www.brokerage-events.eu/K/)**

**Uwe Birk**

Email: [bi@zenit.de](mailto:bi@zenit.de)

Phone: +49 208 30004-49

Mobile: +49 163 88 98 449



## **K matchmaking**

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*Business Support at Your Doorstep*



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### ■ Index in alphabetical order of all participating organisations with profiles

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## V

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### VITO

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Belgium

CO 25

TO 26

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Czech Republic

CO 28



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### ■ Company Profile

Page 1

**Turkey**

**Abka kırtasiye ve Amb. San. Tic. Ltd. İti.**

### ■ Co-operation Profile

**TR-CO-81**

#### Summary of company profile

Leader company in polypropylene sheet extrusion. Good know how in producing licensed stationery items.

#### Company profile

Leader company in polypropylene sheet extrusion. Good know how in producing licensed stationery items.

#### Objectives of desired contacts

#### Collaboration Details

supply



## K matchmaking

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### ■ Company Profile

**Netherlands**    **Anonymous**

### ■ Technology Offer

**NL-TO-70**

<b>Title</b>	Second generation biodegradable starch based bioplastic from by-products of the potato processing industry.
<b>Abstract</b>	A Dutch SME has developed a new type of bioplastic which is based on starch from byproducts of potatoes. The material is developed for injection moulding, extrusion and thermoforming applications. The firm is looking for commercial agreements with companies who want to develop new market applications which comply with the cradle tot cradle principle.
<b>Detailed Description</b>	The Dutch company is producing biodegradable plastics, based on starch from the by-product of the potatoe industry, since 2001. Based on the experience and know-how from the first generation bioplastics the firm has developed a new type with improved properties. The development has resulted in an extremely versatile bioplastic, appropriate for extensive use in various applications. The firm is now booking for companies who want to develop new market applications which comply the cradle tot cradle principle.
<b>Technical specifications</b>	Material properties: Suitable for injection moulding, sheet extrusion, thermoforming; Density: 1,3 g/cm <sup>3</sup> Processing temp.: 130 -170 °C Tensile strength: 30-31 MPa (ISO 527) Impact Strength: 16-45 kJ
<b>Main Advantages</b>	+ The eco-friendly bioplastic is based on renewable resources and can replace oil-based plastic; + The material isn't consuming food resources because it is made from biomass extracted from inedible by-products of potatoes. + This material doesn't claim large areas of land necessary to grow crops for human consumption. + Production of this bioplastic requires less energy than polyethylene production; + The material can be processed with conventional plastic converting machines for injection molding, extrusion and thermoforming; + Colouring can be done by biobased and conventional masterbatches;
<b>Current State of Development of the Technology</b>	available for demonstration – field tested
<b>Intellectual Property Rights</b>	patent(s) granted
<b>Collaboration Details</b>	commercial agreement; others



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- + Testing of new applications
- + Adaptation to specific needs
- + Engineering
- + Technical consultancy

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<b>Type of Partner Sought</b>	Partner has to be interested into development and sales of new applications with biobased plastic
<b>The Specific Area of Activity of the Partner</b>	Retail, Automotive, Leisure, Packaging
<b>The Tasks to Be Performed of the Partner Sought</b>	Productdevelopment, plastic engineering & converting, sales

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### ■ Company Profile

France

**CNEP (Centre National d'Evaluation de Photoprotection)**

### ■ Co-operation Profile

FR-CO-59

#### Summary of company profile

Expertise in failures analysis and durability prediction of polymers (plastics) materials.

The research centre is a specialist of polymer photoageing, and offers services to industrial companies facing increasing problems of degradation and more generally on polymer ("plastics") failures. It collaborates with SME and world size companies working in various fields of polymer applications.

CNEP is active also active in the determination of polymer initial properties and in the controlled degradation of polyolefins (oxobiodegradable polymers).

The French research centre (CNEP : Centre National d'Evaluation de Photoprotection) examined each year more of 500 failure cases and its expertise is covering more than 100 000 different polymer formulations. Thanks to a large panel of analytical techniques, it's possible to detect the chemical origin in most of initial polymer failures.

In case of ageing analysis, the knowledge of chemical degradation mechanisms of most polymers allows to follow degradation at very low extent both in natural and accelerated conditions. The influence of formulation compounds including stabilisers can also be examined.

CNEP is also specialised in the prediction of long term behavior of polymer materials and composites exposed outdoor or submitted to other environments (thermal, humidity, stress, microorganisms, etc). (decennal guarantees ...)

CNEP is also involved in measurements of initial properties of polymer materials, in particular permeability measurements of packaging films and bottles (CNEP analytical and ageing equipments are reported on web site (<http://www.cnep-ubp.com>)). An expertise in analysis of art objects is also there. CNEP is also involved in legal and insurance expertises concerning polymer failures

Technical specifications : CNEP has the agreement of the french ministry of research as CRT (Technological Resources Centre).

#### Objectives of desired contacts

to establish new contact  
confidentiality agreement between CNEP and industry partners

#### Collaboration Details

distribution; research and development; project development  
Industry, foreign research organisation, Plastic industry, additives distributors, Plastic transformers and constructors concerned by durability problems and quality controls



## K matchmaking

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### ■ Company Profile

**France** CNEP (Centre National d'Evaluation de Photoprotection)

### ■ Co-operation Profile

**FR-CO-60**

#### Summary of company profile

Anonym Society (SA), subsidiary company of a french university (Blaise Pascal University, Clermont Ferrand)

The French research centre (CNEP : Centre National d'Evaluation de Photoprotection) examined each year more of 500 failure cases and its expertise is covering more than 100 000 different polymer formulations. Thanks to a large panel of analytical techniques, it's possible to detect the chemical origin in most of initial polymer failures.

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Research center transferring the results of of fundamental research in polymer degradation and stabilisation

#### Objectives of desired contacts

#### Collaboration Details

research and development; project development



## ■ Company Profile

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Turkey

CREDOY POLYMERS

## ■ Co-operation Profile

TR-CO-46

### Summary of company profile

Credoy Polymers distributes Polystyrene namely High Impact Polystyrene HIPS , General Purpose Polystyrene GPPS , SBS, Copolymers, Polypropylene, PET , ABS, Polycarbonate, Polyethylene , PA6 . We h

CREDOY Polimer is founded by partners that have experience of plastic processing and international polymer trading. Thus the company is committed to understand the end-users better than any other competitor. CREDOY sources , distributes , stocks and finances polymers for tailor made solutions to its clients requirements . CREDOY Polymer align suppliers and buyers in Polymer Business and take full responsibility of realisation of obligations until both sides are satisfied. Our main strategy is to produce mutual benefit to Suppliers and Buyers.

PET , Polypropylene (PP) , PTA , Random Copolymers , Polystyrene Copolymers ,General purpose polystyrene (GPPS) Homopolymers , High impact polystyrene (HIPS) , Polyvinyl Chloride (PVC) , SBS Copolymers , Low Density Polyethylene (LDPE) ,ABS , Linear Low Density Polyethylene (LLDPE) , Polycarbonate (PC) , High Density Polyethylene (HPDE) .

For suppliers, we diverse their markets with our markets of existence. Their products can reach to even small sections of the market thus we provide a good marketing channel. Due to selective and wide client base, we can buy bulk amounts and, let our suppliers, to have consistent orders and production. Apart from back-to-back businesses we take positions for ourselves and, help our supplier on low demand times. We know that long term relations only happen in win-win business. We enjoy our suppliers benefit as much as we enjoy ours. Consistency is also a key to good business relation and we keep our relations and business always fresh. We know that our suppliers bear a lot of financial duties and thanks to our strong financial background we support them whenever needed. We match the Targets of our suppliers with our owns with Harmony. Creating harmony with our suppliers is our main commitment .

Loading Flash Menu

For the buyers , our main service is a consistent supply of raw materials needed to maintain their production at lower costs compared to our competitors. We bring suppliers close to our buyers . Below are the key points of our business focus:

**RELIABILITY:** Buyers can see us not only today they will also see us tomorrow. Especially if they have a problem . Are people are here to be solve problems.

Trust is a hard-earned reward. We keep our promises at any cost. We are ready to loose but never , accept a loss of trust. CREDOY is a bridge between suppliers and buyers . CREDOY facilities this function through improved communications and stronger trading partnerships.



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**FOLLOW UP:** We are always around our Buyers. Even they forget ,we make them remember. Our commitment is to be the first one that the Buyers remember when they want to order. We are around , before they decide to order. Our business, mobile, and personal phones are always answered.

**PERSONAL CONFORMITY :** We have a common business , sense with our clients. We share their business focus and employ , people with empathy. we are a small and very personalized company. We customize each transaction and each partnership around our clients' individual and distinctive needs.

**PRICE:** We commit to provide our clients with the lowest prices in the market in short, medium and long term. We do this , by taking special care on our costs . We know that we are not serving our clients with a high tech. Product but with a commodity. So we try to be low cost company . We do not put our clients Money on unnecessary personel , business, and luxury. We make our profits through , cost reduction and volume and through Buyers end prices. Also our financial allows us to reserve product, when prices are cheaper, for our customers' future needs.

**QUALITY OF PRODUCTS AND SERVICES :** We serve the Buyers with the products that is necessary for their production. For us quality is not a concept it is fact. Quality is supplying the requested product , at right conditions to our buyer.

**CREDIT TERM:** We do not only supply our Buyers with goods, but also we supply them with the right credit they need to run their production.

**LOGISTICS :** It is the important part of our business . Our strength is to supply also small amounts of goods apart from big cargos ,fast to our clients . Just the moment they need the product at their factory . Offices of CREDOY is 3 floor buildings with second floor used for Office purposes and entrance and upper floor for raw material stocking up to 750 mton . The storage areas are used for the urgent needs distribution of the clients. Apart from the inhouse stocking areas CREDOY has agreement with two warehouses for continous supply of polymers.

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**Objectives of desired contacts**

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**Collaboration Details**

distribution; supply

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### ■ Company Profile

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**Israel** eko-plastic improvements

### ■ Co-operation Profile

IL-CO-95

#### Summary of company profile

EKO PLASTIC IMPROVEMENTS

Established in 1999 "Eko Plastic" is today the leading purging company in Israel. The companies Technology is called "EKO- SAVE™".

"Eko Plastic" purging products are part of the process policies with many Israeli International firms, such as "Keter Group", "Zag Stanly", "Tama Plastic Ind", "Plastofil", "Polycad" & many more. Eko exports to Italy, Belgium, Netherlands, Sweden, Turkey, Greece & France. "Eko Plastic" is in the process of expanding its international export business to new locations.

All of "Eko Plastic" purging products are produced with modern equipment & technology & under the strict guide lines of ISO 9001, QS 9000 & REACH STANDARD.

Eko Plastic also markets Oxo-biodegradable disposable products made out of PP & PE with Symphony,s d2w additive. Among our range of products are disposable cups, cutlery & bags of various sizes & uses.

#### Objectives of desired contacts

#### Collaboration Details

distribution



■ **Company Profile**

**Luxembourg e-Xstream engineering; The Material Modeling Company**

■ **Technology Offer**

**LU-TO-92**

**Title** e-Xstream engineering is a simulation software company, 100% focused on the modeling of plastics and rubber matrix composites for the optimal, time and costs efficient design of composite parts

**Abstract** e-Xstream engineering develops and commercializes DIGIMAT suite of software, a state of the art multi-scale material modeling platform that fasten the development of optimal composite materials and parts time and cost efficiently for material suppliers and end users in the automotive, aerospace, consumer goods and industrial equipments industries .

**Detailed Description** DIGIMAT is a set of interoperable modules that allow advanced:

- Material engineering through the Digimat-MF, Digimat-FE, Digimat-MX modules
- Structural engineering through DIGIMAT' interfaces with FE codes (Abaqus, ANSYS, LS-DYNA, ...)
- Analysis of reinforced plastics parts through DIGIMAT' interfaces with injection molding codes (Moldflow, Moldex3D, Sigmasoft, ...) and its mapping tool Map

DIGIMAT for Plastic:  
DIGIMAT platform allows accurate modeling of warpage, vibration, stiffness, creep, relaxation and strength of plastic parts subject to quasi-static or crash type of loading conditions by taking into account the fiber orientation, residual stresses and temperature induced by the injection molding process.

DIGIMAT for Rubber:  
DIGIMAT platform offers basic and advanced tools for homogeneous or composite materials with rubber matrix or rubber blends, taking account of all relevant material behavior

**Main Advantages** Our material modeling solution, DIGIMAT; The nonlinear multi-scale materials & structures modeling platform, is an efficient predictive tool that helps our customers designing and manufacturing innovative and optimal composite materials and parts time and costs efficiently.

DIGIMAT addresses the market needs technology to:

- Reduce material testing and parts prototyping
- Improve material understanding and optimize micromechanical performance (conductivity, stiffness,...)
- Enhance FEA predictivity and accuracy
- Bridge the gap between the process (e.g injection) and the structure



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**Current State of  
Development of the  
Technology**

already on the market

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**Intellectual Property  
Rights**

copyright protected

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**Web Link to Present  
Innovative Product**

<http://e-xstream.com/en/digimat/>

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**Collaboration Details**

license

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### ■ Company Profile

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Turkey

**GÜÇSAN Plastik Kalıp Metal Sanayi ve Ticaret A.Ş.**

### ■ Co-operation Profile

TR-CO-61

#### Summary of company profile

Gucsan acts on plastic injection and tool manufacturing. It was established in 1967. Gucsan serves as codesign partner for its customers. It has also assembly facility. Some of the customers are Toyot

Güçsan began its activities in the industry by tool manufacturing in 1967. The owner of Güçsan, Mr. Zihni Özcan had been producing plastic injection tool by establishing Yavuz, Özen, Norm Kalıp Tool Shops. Then, Plastic Injection was added to its production structure in 1976 and it has been carrying on its activities in Gebze Plastic Manufacturers Organized Industrial Zone in Kocaeli since 2003.

Güçsan serves to automotive industry as 90%. The 75% of this ratio is consisted with sales to OEM. Main OEM customers are Toyota (for 60% of the turnover) and Ford (13% of the turnover). Other OEM customers are Otoyo, Otokar, MAN, Mercedes, Honda. On the other hand, Güçsan produce some plastic products for Fiat and Renault by second tie supplier. Güçsan serves to heating system, electronic industry out of automotive industry.

Güçsan Plastik does not supply only tool manufacturing to its customer; but also it serves qualified project management and co-design opportunities. Güçsan can use tools up to 3 tons for plastic injection. It has manufacturing of 70 tools capacity and also has great and wide laboratory equipments. There are 13 test equipments and two vertical and 25 horizontal, totally 27 injection machines from 15 tons to 800 tons

#### Objectives of desired contacts

to establish new contact; to deepen existing contacts; others  
Benchmarking and receiving current news about industry.

#### Collaboration Details

supply; production; license; research and development; project development;  
project implementation; joint venture; investment



## K matchmaking

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### ■ Company Profile

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**Netherlands** Intertek

### ■ Co-operation Profile

**NL-CO-86**

#### Summary of company profile

The global leading quality, safety, testing, consultancy and certification partner

The Intertek Services in the field of polymers include; characterization of materials and components, processability evaluation, support in material development, performance testing, reliability and durability approval, quality testing, analytical testing, sustainability related services for the polymers and plastics and related industries e.g. the automotive, packaging, electronics, compounders, converters and the building & construction industry.

#### Objectives of desired contacts

#### Collaboration Details

research and development; project development



## K matchmaking

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### ■ Company Profile

Page 13

**United Kingdom** Invest Northern Ireland

### ■ Co-operation Profile

**GB-CO-41**

#### Summary of company profile

One stop shop for Europe in Northern Ireland

Enterprise Europe Northern Ireland at InvestNI is a one stop shop for companies and entrepreneurs in Northern Ireland who need information and advice about:

- \* European legislation, and doing business with other European countries
- \* Innovation, technology and knowledge transfer services
- \* Support to help develop their business
- \* Accessing Framework Programme 7 funding



## K matchmaking

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### ■ Company Profile

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France

Jeune Chambre Economique de la Plasturgie

### ■ Co-operation Profile

FR-CO-58

#### Summary of company profile

Association created in order to federate extrusion plastic industry.

French area in Haute Loire has an important concentration of 60 companies with main activity in polymer film extrusion and packaging (food, agriculture,...). It's the second highest concentration in Europe and the first at French level with 40 % of French manufacturing of polymer film.

The Young Economical chamber for Plastic industry (JCEP) is an association founded in 2007 by these companies. The aim of JCEP is to facilitate exchange between companies, initiate cooperation, promote innovation, new product development.

Currently the members of JCEP are able to make plastic films and sheets, thermoformed pieces, food packaging, ... They used different kind of polymers, mainly PE (HD, BD, ...), PP, PA, EVOH

Moreover, an important project of JCEP is to create a collaborative platform in extrusion of plastic film.

JCEP has been elected Excellence Cluster by the Auvergne Region in June 2010.

#### Objectives of desired contacts

#### Collaboration Details

research and development; project development

- Laboratories
- Specialized Schools
- Association
- Machine manufacturer
- ...



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### ■ Company Profile

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France

Jeune Chambre Economique de la Plasturgie

### ■ Technology Offer

FR-PS-57

<b>Title</b>	Gate to the extrusion plastics industry in Auvergne - Association initiates co-operations
<b>Abstract</b>	Main technologies available are blow extrusion of plastic film, sheet extrusion and thermoforming, cast film process, coating of additional layer (paper – aluminium - plastic), printing of film/sheet, bags manufacturing, tubing extrusion and compounding
<b>Detailed Description</b>	<p>We are able to manufacture :</p> <ul style="list-style-type: none"><li>- all kinds of plastic film and sheet with one and multilayer extrusion technology (film and sheet up to 7 layers – barrier properties) for bags, food packaging, agricultural uses, ....</li><li>- multilayer film obtained by coating technology with an adhesive layer in order to bring different material : paper – aluminium and polymer film</li><li>- thermoformed pieces for food packaging and all kinds of wide, thick and complex shapes : computer housing, car and truck parts, ...</li></ul> <p>One of the missions of the association is to promote the plastic industry in Auvergne to other European areas. We are interested to meet customers, and suppliers, interested by these products with traditional and specific properties.</p> <p>The aim of the association JCEP is to facilitate exchange between companies. We can help you in order to find the right partner company, in plastic industry types previously described, in agreement with your needs.</p>
<b>Technical specifications</b>	- Manufacturing of multiple layers plastic sheets, up to 7 layers : first equipment in France
<b>Main Advantages</b>	<p>Moreover, JCEP has been created by plastic industrial companies of our area in order to promote innovation. JCEP works for development of new technical products in :</p> <ul style="list-style-type: none"><li>- plastic film and sheet</li><li>- thermoformed pieces</li><li>- packaging (bags, food, ...)</li><li>- ...</li></ul> <p>We want to associate plastic industry from Auvergne to national and European projects. The association works in particular with others structures in France and Europe in order to encourage :</p> <ul style="list-style-type: none"><li>• The development of technological partnership between the companies</li><li>• To exchange methods, tools and knowhow due to promote the innovation with SME's</li></ul> <p>Some subject interesting for us are :</p> <ul style="list-style-type: none"><li>• film and sheet with improved and optimised properties</li></ul>



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(mechanical, barrier, aging and durability, ...)

- film and sheet manufactured from bio based polymer with satisfying properties (barrier, ...)
- recycling of multilayer film and sheet
- improving plastics recycling activity
- extending shelf life of fresh packed product
- adjusting size and number of hole in order to control gas inside package, according to kind of fruit (laser perforation)
- improving properties of food packaging
- ...

JCEP and members companies want to have cooperation to develop new technologies, new product in these fields, and to improve their knowledge.

We would like to meet partners like industries, laboratories, specialized schools, machine manufacturers, ...

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### Collaboration Details

partner search

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### Type of Partner Sought

We are looking for new industrial partners (development of products, suppliers and customers) in packaging industry and all activities linked to extrusion of film and sheet plastic.

In order to build new projects, we are also interested to establish contact with :

- Laboratories
- Specialized Schools
- Association
- Machine manufacturer
- ...

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### The Specific Area of Activity of the Partner

All sectors in relation with extrusion

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## ■ Company Profile

Page 17

**France** **OLNICA**

## ■ Technology Offer

**FR-TO-97**

**Title** Invisible marking technology for brand and materials security

**Abstract** Traceability and security for materials.  
Our French company has developed powders to secure materials against counterfeiting. These powders emit a color under UV light with a specific emission. This covert and forensic solution can be inserted into materials like plasters, concretes, textiles, plastics, adhesives,...without changing of materials characteristics. The company is looking for commercial partners.

**Detailed Description** Most industries are touched by counterfeiting with great risks of safety for people and goods. Construction trade industry, textile industry, automotive industry or drug industry are examples among so many others. The economic impact of the counterfeit was estimated at several billion Euros obliging companies to find solutions of protection for their products.

The French company produces robust powders that can be introduced directly into fabrication process of a lot of materials. Each marker has a unique composition offering to the customer his own signature which it will be able to find by a legal expertise. However, it's also possible to visualize the powder under UV light and an analysis of the emission signal is realizable thanks to an adapted reader.

We propose :

- a single chemical composition and optical signature (for each lot or set of product) of marker (millions of possibilities).
- a very easy incorporation in your product (into production process) ; because of the high chemical and temperature resistance of our marker ( $T < 450^{\circ}\text{C}$ ,  $3 < \text{pH} < 12$ )
- No coloration of the marked product : marker invisible to eye (micrometer sized) ; and no modification of the marked material properties
- A very moderate impact in the product final cost (quantity required of marker around 10ppm)
- The multilevel signature for each marker :
  - o□ Identification (under UV lamp).
  - o□ Authentication on field : the portable reader to analyse spectral emission of marker directly on the material.
  - o□ Expertise in Laboratory, to certify the product identity with the chemical analyse of the single marker composition .

With that innovative solution, you will save time in identification of materials, and will also have possibility to authenticate on field and make an expertise of your materials. This is the best legal proof in case of health problem, defect or batch recall. Our product will have a weak impact on your finish product cost, and you can argue about material recycling (differentiation of components – materials with the marker).



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### Main Advantages

Multiple levels of security are possible with the same marker. The high chemical and thermal resistances provide to these markers the capacity to be integrated into a wide range of host materials with no impact on material characteristics. The choice of the emission color is adapted to the materials and the system can be custom tailored to individual needs.

This technology is a covert and forensic security for materials with a unique marker. This 1 micrometer white powder is easy to implement and integrates into a wide range of materials with no disruption to product design or production processes. With more than 1 million of different markers we can provide a unique marker for each customer.

Our taggant possess:

- a single chemical composition (for each lot or set of product) of marker (millions of possibilities) and adapted optical signature .
- a very easy incorporation in your product (into production process) ; because of the high chemical and temperature resistance of our marker ( $T < 450^{\circ}\text{C}$ ,  $3 < \text{pH} < 12$  )
- No coloration of the marked product :marker invisible to eye (micrometer sized) ; and no modification of the marked material properties
- A very moderate impact in the product final cost (quantity required of marker around 10ppm)
- The multilevel signature for each marker :
  - o  Identification (under UV lamp).
  - o  Authentication on field : the portable reader to analyse spectral emission of marker directly on the material.
  - o  Expertise in Laboratory, to certify the product identity with the chemical analyse of the single marker composition .

### Current State of Development of the Technology

already on the market

### Intellectual Property Rights

patent(s) granted

### Web Link to Present Innovative Product

[www.olnica.com](http://www.olnica.com)

### Collaboration Details

commercial agreement

### Type of Partner Sought

The company is seeking potential users of his security technology or distributor.

### The Specific Area of Activity of the Partner

activity of partner sought : manufacturing raw materials or finish products



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### ■ Company Profile

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#### Netherlands Perfotec BV

### ■ Technology Offer

NL-TO-80

<b>Title</b>	Laser system with online quality and oxygen transmission control improves shelf-time of film packed fresh(-cut) products via an optimised film permeability
<b>Abstract</b>	For Professional Packers of Fresh(-cut) Products who want to improve the consistency of the quality and shelf-life of their packed products, the PerfoTec Laser System with Online Camera Control, gives a lot of advantages such as oxygen transmission and quality control or individually perforated films.
<b>Detailed Description</b>	<p>The Best Practice in micro perforation of packaging film is when this process is under control of the packers, because the respiration of Fresh Produce changes through the seasons.</p> <p>Therefore the film permeability must be considered as a Critical Control Point for the quality and shelf life of Fresh Produce (QACCP). To tackle this CCP, PerfoTec has developed its unique Camera Inspection System with Automatic OTR (Oxygen Transmission Rate) Control® *). The camera checks and controls the Oxygen Transmission Rate of each pack, because each hole is inspected and analysed. If necessary the laser energy is automatically adjusted 'on the fly' to balance out any variation in film thickness, which may cause variation in hole sizes. Films produced with laser perforation without such Automatic Camera Control system are unreliable due to unseen and undesired inconsistencies in film permeability and even missing holes.</p>
<b>Main Advantages</b>	<ul style="list-style-type: none"><li>- product and season related film permeability</li><li>- oxygen transmission and quality control</li><li>- detection of inconsistencies in film permeability</li><li>- improvement of shelf-life and quality</li></ul>
<b>Current State of Development of the Technology</b>	already on the market
<b>Intellectual Property Rights</b>	patent(s) granted
<b>Collaboration Details</b>	commercial agreement; partner search
<b>Type of Partner Sought</b>	Industry
<b>The Specific Area of Activity of the Partner</b>	Producers and professional packers of fresh(-cut) products
<b>The Tasks to Be</b>	Use the offered technology with technical assistance to improve shelf-time of



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**Performed of the  
Partner Sought**

products.

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### ■ Company Profile

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Turkey

Sistem Kalip ve Plastik San

### ■ Co-operation Profile

TR-CO-89

#### Summary of company profile

We are mould oriented company. We can supply you plastic injection moulds and blowing moulds. We have been in the sector over 30 years. We also have production capability so we can supply you plastic

With 28 years of molding experience , our company has started to produce plastic blowing and plastic injection products since 2007.

According to customers demand , design , 3D drawing , modelling , moulding and at the end , production of the final product can be done in our company quickly .

The molds , that we have produced for various sectors , which have been working perfectly for years , and the customer satisfaction are the reasons why are proud of.

#### Objectives of desired contacts

#### Collaboration Details

supply; research and development; project development



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### ■ Company Profile

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Turkey

STANDART INSULATION CO.INC.

### ■ Co-operation Profile

TR-CO-98

#### Summary of company profile

Standart Insulation Co. - manufacturer of bituminous waterproofing membranes - is looking for partners and technologies for new waterproof products for the construction sector

Standart Insulation Co. is mainly producing bituminous waterproofing membranes for the construction industry since 2001 and sales to the market through the distributors over the country, and exports some parts of the productions to European countries.

Our company mainly has experience in the production of bituminous waterproofing membranes and has app. 100 distributors over the country. About the waterproofing, gives training to the market about applications, materials and details.

Our company intends to make new investments for the production of waterproofing materials such as liquid materials, plastic membranes etc. for the construction industry. We are looking for related technologies and equipment, joint venture partners and investors.

#### Objectives of desired contacts

#### Collaboration Details

supply; production; research and development; investment



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### ■ Company Profile

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**Netherlands** SYNTENS

### ■ Co-operation Profile

NL-CO-12

#### Summary of company profile

Syntens is a semi governmental organisation for supporting and stimulating innovation within SME's

Syntens is a semi governmental organisation for supporting and stimulating innovation within SME's.

It has a national coverage through The Netherlands and focusses on Food & Agro, Creative Sector, Industry, Logistics, Human Health and Building & Construction



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### ■ Company Profile

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**Lithuania** UAB METGA

### ■ Co-operation Profile

LT-CO-53

#### Summary of company profile

UAB METGA produce parts from rubber and metal. We work as a subcontractor and make parts according customer drawings

UAB METGA established in 1993 in Kaunas, center of Lithuania. We have two productions - rubber and metal.

Our company work as a subcontractor and produce parts according customers drawings.

We do:

1. Metal to rubber process;
2. Small rolls and big rolls coating with rubber;
3. O-rings, gaskets and other parts production from rubber;
4. Rubber gaskets.

#### Objectives of desired contacts

#### Collaboration Details

production; joint venture



## K matchmaking

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### ■ Company Profile

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Belgium

VITO

### ■ Co-operation Profile

BE-CO-100

#### Summary of company profile

VITO's Pasma Team, one of the top 3 research groups in Europe, offers VITO Materials Unit, used by more than 30 roll-to-roll goods to enhance their products

VITO is an independent research organisation based in Flanders, active in sustainable technologies in the field of energy, environment and industrial innovation.

Within VITO's Materials Unit new technologies for nano surface modification and layer-by-layer component manufacturing are developed, thereby saving materials and energy resources and reducing waste.

VITO Plasma Team is specialised in the development of cold plasma technology at atmospheric pressure and its applications for surface treatment of materials. This novel and environmentally friendly plasma technology allows to activate, clean and coat materials at molecular or nanometer level. Typical applications are cleaning and activation of plastic or metallic foils for improved adhesion in multi-layered structures or better printability (e.g. for packaging materials). Other possible applications involve plasma deposition of non-sticking coatings for pressure sensitive tapes or membranes and coatings with anti-bacterial properties. Applications for plasma coatings with incorporated nanoparticles and biomolecules are currently being investigated.

VITO's atmospheric plasma team belongs to the top 3 research groups in this area in Europe. Already more than 30 roll-to-roll goods manufacturers of plastics, paper, metal and performance materials are using the VITO Materials Unit to enhance their products with atmospheric plasma surface innovations. The technology platform also allows companies of specialty chemicals to develop customized surface treatments based on their own proprietary chemical technologies.

Plasma equipment developed by VITO (PlasmaSpot, PlasmaLine and PlasmaZone) is commercially available through collaboration with a German partner. The VITO technology is used by several other research organisations and companies for the development of a broad range of surface modifications. More information can be found on [www.vitoplasma.eu](http://www.vitoplasma.eu)

#### Objectives of desired contacts



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### ■ Company Profile

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Belgium

VITO

### ■ Technology Offer

BE-TO-99

**Title** VITO Plasma Team develops atmospheric plasma technologies for environment friendly surface treatment of roll-to-roll goods

**Abstract** VITO Atmospheric Plasma Team is specialised in the development of cold plasma technology at atmospheric pressure and its applications for surface treatment of materials.

This novel and environmentally friendly plasma technology allows to activate, clean and coat materials at molecular or nanometer level. Typical applications are cleaning and activation of plastic or metallic foils for improved adhesion in multi-layered structures or better printability (e.g. for packaging materials).

#### Detailed Description

VITO is an independent research organisation based in Flanders, active in sustainable technologies in the field of energy, environment and industrial innovation.

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#### Current State of Development of the Technology

already on the market



## K matchmaking

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### **Intellectual Property Rights**

patent(s) granted

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### **Web Link to Present Innovative Product**

[www.vitoplasma.eu](http://www.vitoplasma.eu)

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### ■ Company Profile

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**Czech Republic** VJB Partner s.r.o

### ■ Co-operation Profile

CS-CO-49

#### Summary of company profile

We focus on custom manufacturing in the fields of injection moulding, sheet-metal pressing, powder painting, product printing and final assembly.

Our main sector of business is manufacturing for the electro-technical industry and telecommunication, construction as well as partially the automobile industry. Most of our production is exported to the EU.

We offer our customers the production of various types of plastic and metal products while focusing on quality and reliability.

Example of our plastics products: parts for switching elements, sockets, ordinal connecting boxes, covers, holders, cases, clips, spacers, clear lenses and so on; We produce parts to the weight of c. 200gr. (PS) or to the area of c.250cm<sup>2</sup>.

Some of the benefits we offer include continual monitoring of product quality, logistic and material assurance, more than 10 years experience with custom manufacturing, experience with the European market, our own toolroom, experience with series production, the capability of assuring and managing external product processing as well as the opportunity of making investments in order to further manufacturing development.

Our efficiency, flexibility and short delivery terms are the base for functional business relationship.

#### Objectives of desired contacts

#### Collaboration Details

supply; production; others

We are seeking for manufacturing companies (e.g. Outsourcing) or companies with its own project or know-how that are looking for a manufacturer for its products.



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*Business Support at Your Doorstep*