



# CINET

Professional Textile Care

**BEST PRACTICES=  
PROFITABLE & SUSTAINABLE BUSINESS!**

## **CINET Research and Development Program 2018-2019**



**Benchmark Studies,  
International Technology & Marketing Projects**

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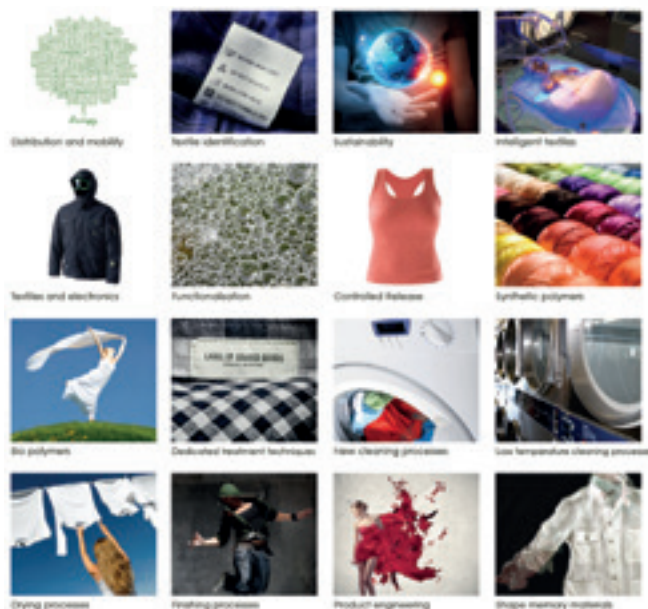
# CINET

Professional Textile Care

## Research & Development Program

CINET is working actively to stimulate innovation and to support exchange of knowledge by performing research and dissemination activities with an international focus, underlining the added value of international cooperation. Therefore this International Research & Technology Program is set up defining the topics and priorities. Results are reported to CINET members and used for exchange of information within the global industry. The main objective of CINET is to accelerate innovation by exchanging knowledge and practical information with an international focus:

- Research & technology projects to meet the changing market demands in PTC.
- Benchmark studies to provide information of quality performance, sustainability and environmental impact to profile the industry to companies, customers, stakeholders and governmental bodies.
- Market development projects to provide information to optimize textile cleaning and textile service processes according to best practices to increase energy efficiency, lower the environmental impact and increase the product life cycle.



## Main benefits

Get insight into the latest R&D work that CINET executes. Altogether these are some 10-15 projects per year, all results are shared with the member base on a year by year base.

Do you have any pressing issues or innovative ideas for new business, but do you lack the time or expertise on how to implement them? CINET can provide the solution by starting and managing a joint project! You will always get a head-start with the implementation of this new business model.

Get in touch with experts from Universities or consultants from research institutes who can aid you in developing new business and technologies. CINET is more than happy to build bridges between parties for mutual benefit throughout our network.

## Results

Get access to the results of from the various projects that we coordinate in order to improve your business. These projects vary from reference studies of different solvents, to the optimization of the water and energy use for open-end machines. You can also get access to different tools that we provide. For instance: A LCA-tool to give you a better insight into the energy-efficiency of your company, as well as a tool that will help you with identifying energy and money saving projects in your business.

## Technical Research & Marketing projects

Innovations and developments are an ongoing process. Based on changing demands of customers and societies, new materials, processes, ICT tools, logistics and service concepts are developed. Over the last couple of years various research & development projects were organised. Some examples:

- **Data2move Laundry**

The Project Data2move Laundry (D2m) was started to help the industry move towards "Industry 4.0" and "Smart Laundry". D2m is a collaboration of CINET and TKT with students from the TU Eindhoven and other partners in the community. D2m consists of various projects that the industry would like to see investigated through the use of the "Big Data Community". The best ideas will have a chance to present their findings and to have them further developed.

- **On Demand Services**

Laundry on Demand (LoD) is a new innovative project that combines doing laundry with calling an Uber. It's the goal to supply clients with professionally cleaned garments in just 3 swipes available anywhere in the country! LoD will pick up and return your garments to your doorstep. With the trend of "easy access to anything" nowadays, having the option of not having to worry about doing laundry in your busy schedule is very appealing. And with only 3-5% of the laundry being washed professionally, there is a big market to explore.

- **Laundry for Tomorrow**

Laundry for Tomorrow is a project that aims to decrease the amount of water being used in PTC-markets and minimise the water pollution. It is a collaboration with local businesses, as well as various suppliers.

- **Country reports**

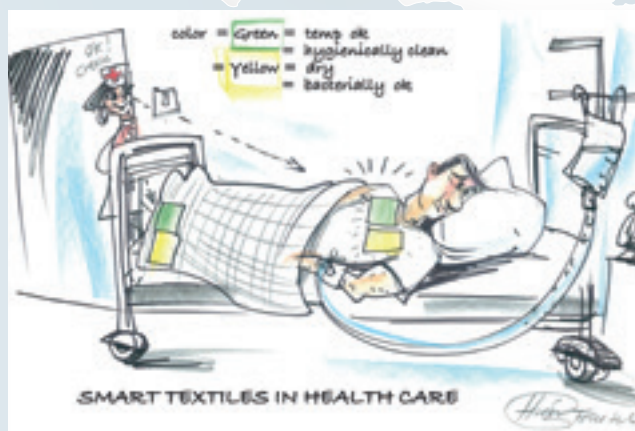
Market data of some 20 major markets around the world describing trends, characteristics and short, medium and long term perspectives.

## Innovations & New Technologies

In this project PTC innovations are demonstrated and evaluated. Changing customer demands require new enabling technologies allowing PTC companies to provide more advanced services. Demonstration projects provide the textile service and textile cleaning companies information about relevant future developments. New PTC services, new solvents, processing technologies, automation, functional materials, and more are subject to pilots and demonstrations. An overview of these developments are published in The CINET Book 3: The World of PTC: Innovations & New Technologies. Continuous updates and reviews of innovations and developments are organised to keep the information updated.

- **Logistics & Online Services**

Services on a personal level are demanding mass customisation, concepts based upon flexibility in the process, automation and ICT tools to produce tailor made solutions in an efficient and effective way. These needs are the starting point for the development of new service concepts and business cases. The project set up in the Data2Move Laundry community and Laundry on Demand field are concrete examples for this field of expertise.



## Benchmark on Sustainability, Energy efficiency & Quality performance

Recent developments in equipment, processes, energy efficiency, recycling and best practices increase the sustainability of the professional textile care industry. New textile cleaning and processing techniques offer new opportunities to textile cleaners. The benchmark studies provide an overview of the performances.

- **CINET benchmark study on Sustainable Textile Care**

An update study on the environmental impact of professional textile services and textile cleaning in comparison with domestic laundering. The study (2015), in cooperation with Professor Stamminger from The University of Bonn (Germany), reviewed the current state of the art of domestic laundry. This study confirmed the results that professional textile care industry offers the best sustainable solution in textile cleaning currently available, up to 3 times more sustainable compared to domestic laundry.

- **Solvatex VI, benchmark study on quality performance Wetcleaning**

The aim of the project was to evaluate the performance of wet cleaning processes by setting a minimum of performance requirements to give an actual picture of the quality of the current wet cleaning technology. Quality aspects incorporated were stain removal, greying and dimensional change. Wet clean processes meeting the minimum requirements are rewarded with a statement of achievement by CINET. The statement of achievement is a proof to the market that the rewarded wet cleaning system meets with the quality standards of CINET for textile care processes for sensitive garments.



- **Solvatex VII, benchmark study on quality performance Solvents Cleaning**

The Solvatex projects provide an independent overview of the cleaning performance for professional textile cleaning processes. The previous projects evaluated currently established solvents and professional wet cleaning systems under practical conditions. Recently various new solvents have entered the market, changing the global spectrum of cleaning technology. The next Solvatex VII study will review independent evaluation reports and conditions to present an overview of the cleaning performances and technologies for these new professional textile cleaning processes. This will include Higlow (Christeys), Intense (Seitz), Ky (Kreussler) and Sensene (Safechem).

- **Ecotool Life Cycle Analysis, benchmark on the environmental impact**

Originated from the Dutch textile manufacturing business this tool was picked up by international textile service associations. Adding the industrial laundering and textile service processes to the textile life cycle tool, resulted in a complete overview of the textile life cycle. The Ecotool is currently updated with standard products and processes enabling benchmarking between products, processes and applications. The Ecotool gives the complete overview of environmental impact and energy efficiency of the complete textile service chain.

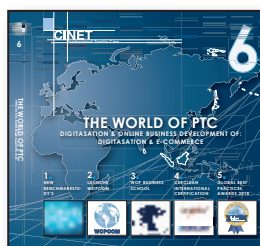
**“Professional Textile Care up to 3 times more sustainable compared to domestic laundering”**

## Knowledge Database

By stimulating research and development within the PTC industry and cooperating with international experts, CINET is working actively on an extensive knowledge database. This database consists of information on state of the art textile care processes, quality performances, textile materials, logistics, ICT & online developments, energy efficiency, sustainability and more. This knowledge is made available to the industry by workshops, educational programs, books, websites and brochures.

### About TKT

CINET is represented in the board of Technological Knowledge Centre Textile care (TKT). TKT is the knowledge centre for textile cleaning as well as for industrial laundering / textile services. The centre coordinates research & development projects in the field of quality & hygiene, sustainability, energy efficiency, logistics & ICT and innovations. Therefore TKT is linked with international research institutes, universities and suppliers.



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