GREEN STAR
GREEN skills for enterprises Sustainable Training for Automotive suppliers clusteR

Programma di apprendimento permanente

LLP LEONARDO DA VINCI

GREEN STAR: GREEN skills for enterprises
Sustainable Training for Automotive suppliers cluster

NEWSLETTER n.1 - September 2014

THE PROJECT

GREEN STAR aims to support the systemic change toward **eco-innovation** in the cluster of **automotive suppliers**, mainly SMES, by transferring the Leonardo DOI "**GT-VET" Sustainable Training Module** for the European Steel Industry (Large Enterprises) and the Blueprint for the implementation process of green skills for the industry in coherence with different national VET systems in Italy, Spain and Romania. **Technical workers and apprentices** in SMEs will be provided with knowledge and skills to manage and implement smart and sustainable growth.

Intermediate outcomes include the two Focus Groups to promote the cooperation among VET, work systems and Triple Helix stakeholders to co-create a Sustainable Training Module for Automotive Cluster suppliers and adopt a **cluster-driven approach to VET.** Tangible outcomes are the Local Stakeholders Action Plans to t**est the adapted Sustainable module**, the final Scientific publication and the related abstracts in 4 national languages.

The GREEN STAR transnational consortium includes the source of innovation represented by the University of Dortmund, which will ensure the scientific transfer and stimulate discussion during the Focus Groups with the relevant stakeholders, by showcasing the GTVET Blueprint and Module. Other partners, including the Leader Project (Confindustria Veneto SIAV), are employers training and service organizations, companies, public authorities and chamber of commerce in Italy, Spain and Romania. The EVTA network (European Vocational Training Association) will contribute to the dissemination and valorizations process all around Europe.

Duration: GREEN STAR runs from October 2013 to September 2015.

GREEN STAR EVENTS

⭐ **Kick off Meeting** (9th December 2013, Venice Mestre, Italy)

GREEN SKILLS unveiling sustainable cars ♻

GREEN STAR
GREEN skills for enterprises Sustainable
Training for Automotive suppliers clusteR

Programma di apprendimento permanente

LEONARDO DA VINCI

Leonardo da Vinci TOI n. 2013-1-IT1-LEOO5-03983 G73D13000280006

NEWSLETTER n.1 - September 2014   **pag.2**

Launch Conference GREEN STAR: GREEN skills for enterprises
(10th December 2013, Venice Marghera, Italy)

As a follow-up of GT VET (Greening Technical Vocational Education and Training), the project GREEN STAR (GREEN skills for enterprises Sustainable Training for Automotive suppliers ClusteR), was launched on 10 December 2013 in Venezia Marghera (Italy). During the conference the German partner Technical University of Dortmund shared the GT VET approach concerning green skills and industry analysis; the companies API, Bruss Juntas Tecnicas and Sinterom presented their context and expectations. The University of Padua and SGS proposed an overview of the cluster approach and skills requirement connected to the green skills for the Automotive suppliers. The National Agency Leonardo da Vinci - ISFOL presented the contribution to the green jobs development in Europe.
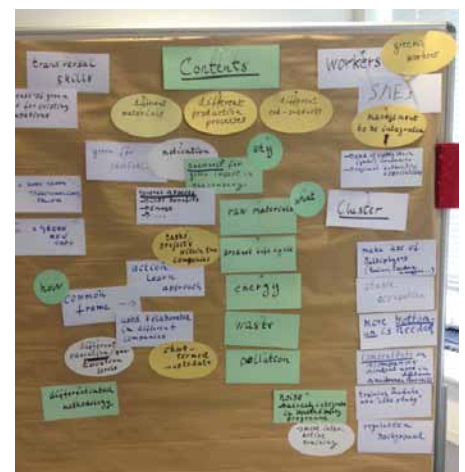
2nd Transnational Meeting & Focus Group *"Re-skilling & up-skilling of Green Skills"*
(3-4 June 2014, University of Dortmund-Sozialforschungsstelle, Germany)

The transnational meeting & focus group in Dortmund was mainly focused on the adaptation of the GTVET modules to the project GREEN STAR, by addressing specific "green topics" related to: 1) Raw materials (use/saving / recycling); 2) Energy (savings in the production process); 3) Life product cycle (duration/reuse/disposal); 4) Pollution; 5) Waste (reduce waste/scraps/packaging). The GREEN STAR partners decided to focus on three specific modules: energy (possibly including references to the ISO 50001); waste; LCA/LCC (Life Cycle Assessment and Life Cycle Costing).

The partners will focus on the following target groups: 1) workers (in order to increase their awareness on "green" behaviors to be taken at work); 2) company managers (to sensitize them on the need to introduce innovation to make more sustainable / green production processes, thus anticipating the future EU regulations to be complied with).

The debate followed the literature analysis *"Green skills in the automotive suppliers cluster_ Cluster driven analysis"* presented by Prof. Bernardi (University of Padua), concerning the automotive clusters in Europe, and all around the world, and the specific

GREEN STAR

GREEN skills for enterprises Sustainable
Training for Automotive suppliers clusteR

Programma di apprendimento permanente

LEONARDO DA VINCI

Leonardo da Vinci TOI n. 2013-1-IT1-LEOO5-03983 G73D13000280006

NEWSLETTER n.1 - September 2014   **pag.3**

demand for green skills (especially from the SMEs of the automotive supply chain providing and/or assembling car components and raw material like plastic or metal). Mr. Antonius Schröder (University of Dortmund) then explained the contents of the model GTVET (applied to the steel industry) and its potential application in the field of automotive supply chain.

At the focus group of the last day *"Reskilling & upskilling of green skills"* took part some representatives of the German Steel Federation, ThyssenKruppSteel (partners of GTVET), the training school of ThyssenKrupp, UNESCO-UNEVOC (Bonn headquarter) and BIBB (Federal Institute for Vocational Education and Training, Bonn).

Next transnational meeting & focus group of the project will be organized on 3-4 November 2014 by the Chamber of Commerce of Cluj (Romania).

GREEN STAR RESULTS: A LITERATURE-BASED ANALYSIS

The Green STAR literature-based analysis, rather than a classic literature review, represent a proposal to provide a common framework and a starting point for reflection and discussion for stakeholders. About 270 papers and reports have been analysed by the keywords **Automotive, Skills/ Competence, Sustainability/ Green, Cluster** (Database Scholar and Scopus). 27 articles have been selected when containing at least two combined keywords.

Automotive

The emerging trends, related to the development of sustainability, concern the product being used, rather than the process. Processes are nonetheless considered, particularly in connection with new materials and energy issues. The two key dimensions are: **pollution** as a general issue and within the product life cycle management, and **energy** consumption related to production as well as to the means of transport.
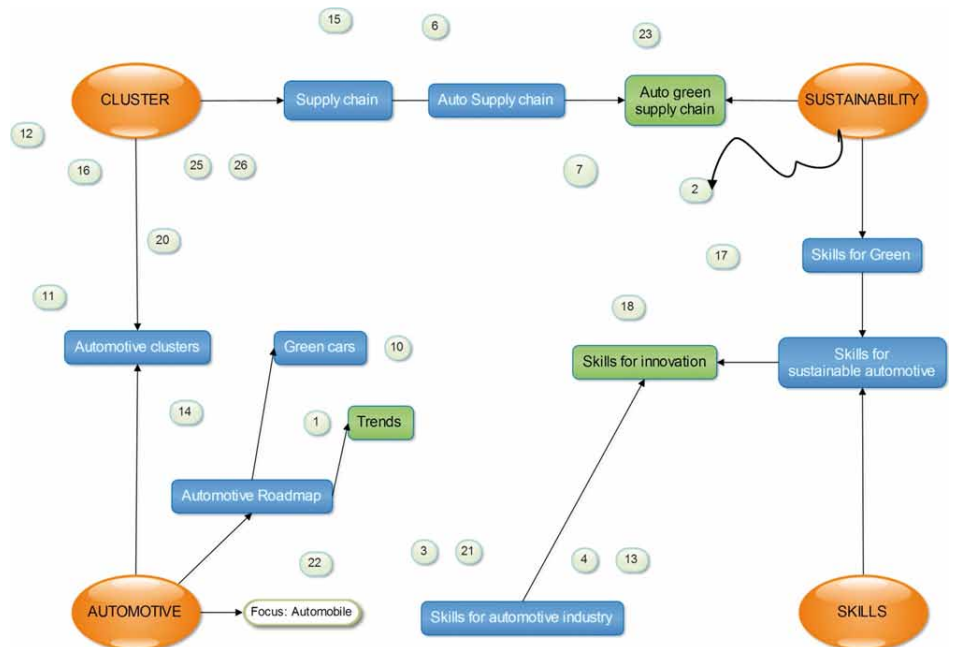

Fig. 1 – Map of the literature according to the 4 main issues

Sustainability

The structure based on a cluster-integrated supply chain leads to an association of the green issue to the whole chain: any result obtained is inevitably related to each and every phase. To this extent, the boost of green skills deriving from requirements set in the technical specifications of a component or processing, originating from final Original Equipment Manufacturers to upstream suppliers appears to be of fundamental importance.

GREEN STAR
GREEN skills for enterprises **S**ustainable **T**raining for **A**utomotive suppliers cluste**R**

Programma di apprendimento permanente

LEONARDO DA VINCI

Leonardo da Vinci TOI n. 2013-1-IT1-LEOO5-03983 G73D13000280006

NEWSLETTER n.1 - September 2014   pag.4

Skills/ Competence

Starting from trends highlighted in automotive search results, useful suggestions can be obtained for technical skills requirements, such as Increasing Electronic Content; Complicated Engine Designs; Plastics emerging as a replacement to Metals; Hybrid Vehicles.

Clusters

The development of clusters in the automotive sector is connected with the transformation of this sector in the structure, layout and location of its supply chains, especially with the development of new competitive trends towards shared top suppliers (sub-assemblers, Tier 1).

PARTNERS

Confindustria Veneto SIAV - IT
Gabriella Bettiol, Chiara Salatin - Tel: +39 041 2517511, area.progetti@siav.net, www.siav.net

Technische Universität Dortmund Sozialforschungsstelle DE Antonius Schröder
Tel: +49 231 7552205, schroeder@sfs-dortmund.de, www.tu-dortmund.de

Federación Vizcaína de Empresas del Metal - ES
Joseba Sainz de Baranda - Tel: +34 944 396469, joseba@fvem.es, www.fvem.es

Camera de Comert si industrie Cluj – RO
Elisabeta Dumitrescu, Delia Santa
Tel: +40 364 730980, erzsi@ccicj.ro, www.ccicj.ro

Region of Veneto – Department of Labour - IT
Simonetta Mantovani - Tel: +39 041 2795924, simonetta.mantovani@regione.veneto.it, www.regione.veneto.it

API Applicazioni Plastiche Industriali - IT
Luca Soffia - Tel: +39 042 4579711, luca.soffia@apiplastic.com, www.apiplastic.com

Bruss Juntas tecnicas - ES - Kepa Jon Arana
Tel: +34 946 21763, kepaArana@bruss.es, www.bruss.de

SC Sinterom - RO - Alexandru Gaciu
Tel: +40-264-415080, dirprod@sinterom.ro, www.sinterom.ro

EVTA - The European Vocational Training Association - BE Tommaso Grimaldi
Tel: +32 (0)26445891, tommaso.grimaldi@evta.net, www.evta.net

Silent partner
Fòrema - IT - Roberto Baldo
Tel: +39 049 8227277, rbaldo@confindustria.pd.it, www.forema.it