

The METALS consortium

The organisations involved in the Erasmus+ METALS project are:

Project leader - CECIMO - European Association of the Machine Tool Industries

www.cecimo.eu

AFM - Advanced Manufacturing Technologies

www.afm.es

Afol Metropolitana

www.cittametropolitana.mi.it/afolmilano)

Detmold Government Department 45

www.bezreg-detmold.nrw.de)

ECOLE - Enti CONfindustria Lombardi per l'Education

www.myecole.it

IMH - Machine Tool Institute

www.imh.eus

ITB - Institute of Technology and Education of the University of Bremen

www.itb.uni-bremen.de

IVAC-EEI - Basque Institute for Vocational Qualifications and Training

www.ivac-eei.eus

TKNIKA

www.tknika.eus

UCIMU-SISTEMI PER PRODURRE

www.ucimu.it

VDW YF - German Machine Tool Builders' Association Youth Foundation

www.vdw.de

The METALS project is led by:



In partnership with:



Machine Tool, Accessories, Component Parts and Tools Manufacturers' Association of Spain



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CENTRE DE INVESTIGACIÓN E INNOVACIÓN APLICADA PARA LA FP
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UCIMU-SISTEMI PER PRODURRE

METALS

MachinE Tool ALLiance for Skills



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Erasmus+
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METALS

MachinE Tool Alliance for Skills

What is Erasmus+ Sector Skills Alliance?

Erasmus+ Sector Skills Alliances aim at tackling skills gaps, enhancing the responsiveness of initial and continuing VET systems to sector-specific labour market needs and demand for new skills with regard to one or more occupational profiles.

What are the skills challenges in the machine tool industry?

- ◆ A prolonged applied skills gap threatens European machine tool builders' global competitiveness
- ◆ There is currently scarce collaboration between VET providers and industry bodies on the current skills demand in emerging technologies such as additive manufacturing
- ◆ Information on new teaching methods lacks and, as a result, open educational resources are ill-included into teaching methods in VET
- ◆ Low harmonization of education and training qualifications across Europe obstructs mobility of VET learners and machine tool industry's workforce between countries



What is METALS?

METALS has the objectives of:

- ◆ Providing an analysis of current and future skills needs in the machine tool sector related to emerging technologies such as additive manufacturing
- ◆ Developing a new curriculum in vocational education and training (VET) for entrepreneurship skills tailored to future technologies and needs
- ◆ Setting up an e-learning platform with training materials on emerging technologies such as additive manufacturing, accessible by learners and workers for free
- ◆ Strengthening the exchange of knowledge and practice between education institutions and the industry at European level
- ◆ Organizing strategic events on skills-related issues with the involvement of key stakeholders from across Europe
- ◆ Providing EU and national decision-makers with industry insights to contribute to policy-making in the education and training fields

Who is METALS for?

Target groups for the project are:

- ◆ Machine tool companies offering in-house training programmes in need of new digital learning materials
- ◆ VET learners including apprentices studying to acquire relevant skills for the machine tool sector and experienced machine tool workforce in need of up-skilling
- ◆ Vocational education and training providers willing to enrich outdated curriculum in Europe,
- ◆ National and European-level decision makers looking for industry input for the design of education policies

What is the impact of new technologies on the machine tool workforce?

While disruptive technologies provide new business opportunities for machine tool builders, understanding the scope of technological changes occurring on different fronts and integrating them into their own business is a complex task and requires new skills. METALS will help ensure that the upcoming machine tool workforce is trained on new applications, like metal additive manufacturing, to support the global technological leadership of the European machine tool industry.