

Skillman 2021

INTRODUCTION to THE NETWORK

“Redefining the future of learning...”

Giovanni Crisonà



the future of TVET
TVET in the future

Opening session
skillman.eu

Mr. Crisonà is an international consultant on capacity building in TVET sector, founder and Managing Director of CSCS Italy and Managing Director of Abuplus International GMBH Germany. Is a "Skill Assessor," certified by Tuscany Region VET Authority, owns a Vocational Degree as a "Technical Director in industrial engineering" and a Master's degree in Education. Has worked and collaborated in Europe, Africa and Asia with private bodies, governments and agencies, European Commission, ETF European Training Foundation, ITC-ILO, ADB, Millennium Challenge Corporation, regional authorities and industry leaders.

In 2019, Mr Crisonà has driven his organization to be ranked, at the 10th anniversary of the EYE - Erasmus for Young Entrepreneurs network of the European Commission, as the most active Intermediary Organisation for the period 2009-2019



the future of TVET
TVET in the future

skillman.eu



Giovanni Crisonà
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Riga Conclusions European cooperation in VET 2015-202 **2015**

2010

better alignment of VET with
market needs supporting VET for
smart and sustainable growth
Bruges Communiqué

2014

skillman.eu
**Network
foundation**

2017

SAW
**Skills Anticipation
Wave**

2019

coves.eu
**Including
sustainability and
ethical values**

2020

SAT - Skillman's
systematic approach to
excellence
Self-Assessment Tool

Vision



Setup



**Sector Skills
Alliances**



**Smart Spec.
Platforms**



**CoVEs
EXCELLENCE**

**MFF
21 - 27**

**strategic tools
in line with
industry needs**



**Copenhagen
Declaration**
Enhanced
cooperation in VET
2002

**EU strategy for sectoral
stakeholders collaboration**
Industry, regulatory authorities and
TVET providers

2014

**Strengthening Innovation
In Europe's Regions**
Communication - linking
VET to innovation systems

2017

**Proposal for the new
Erasmus+ programme**
Multiannual Financial
Framework

2018

**Skills at the heart of
EU policy agenda**
Pact for skills

2020

Osnabrück declaration on VET as an enabler of recovery and just transitions to digital and green economies' **2020**

'Osnabrück declaration on VET as an enabler of recovery and just transitions to digital and green economies'

T (VET) responds to the needs of the economy, but also provides learners with skills important for **personal development and active citizenship***

* (EU policy in the field of vocational education and training) EU Commission

VALUES & ETHICAL DIMENSION VERY STRONG COMMITMENT



Social dimension

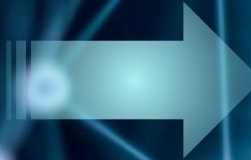


Green skills



Digital skills

EXCELLENCE FOR ALL



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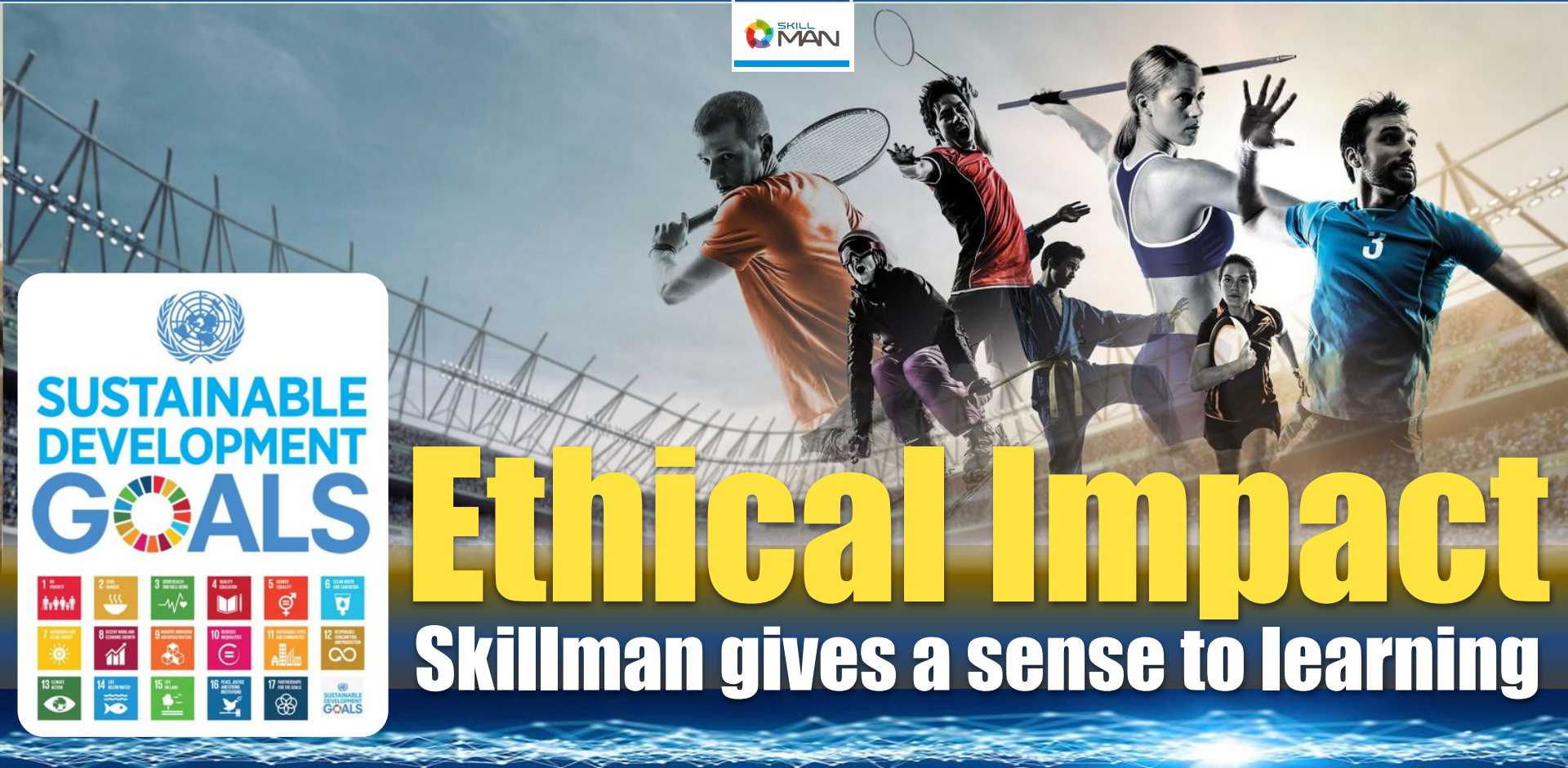


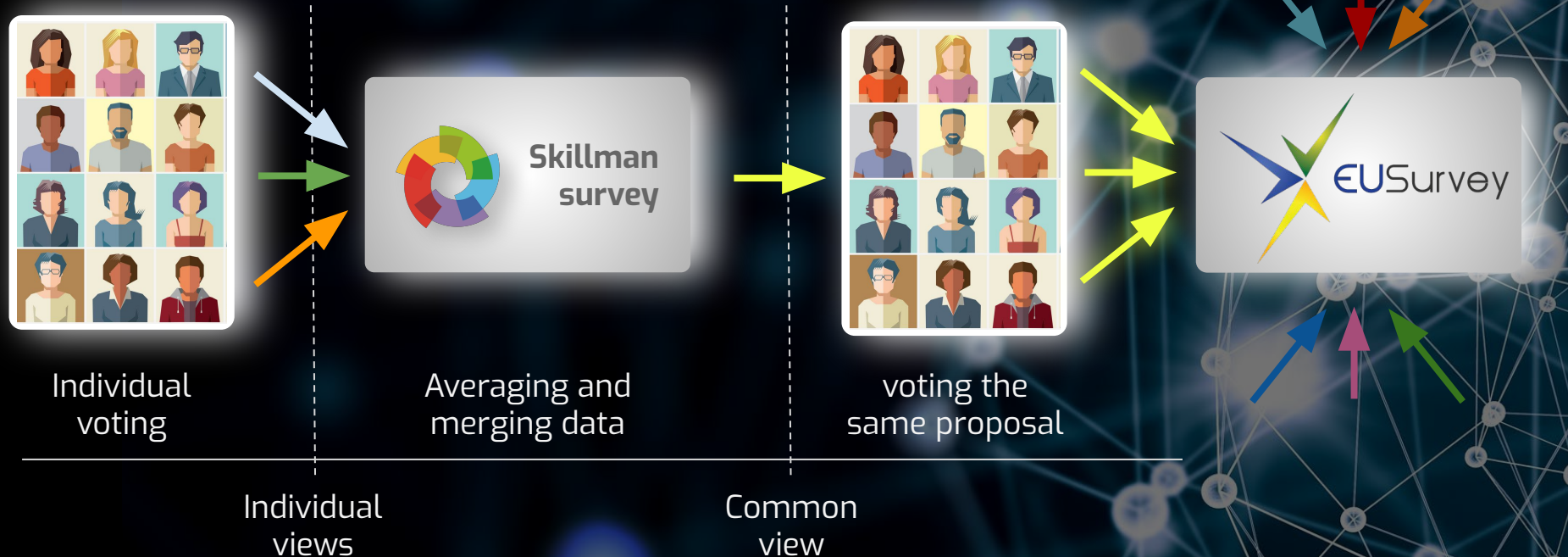
**SUSTAINABLE
DEVELOPMENT
GOALS**



Ethical Impact

Skillman gives a sense to learning





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SKILLMAN FLORENCE DECLARATION

Feb 2020

TVET FOR GREEN, SUSTAINABLE AND INCLUSIVE
DEVELOPMENT IN RESPONSE TO THE
INDUSTRIAL REVOLUTION, THE EMERGENCY
AND ETHICAL CONSIDERATIONS

ARISING OUT OF AND ENDORSED BY PART
FORUM, 10 AND 11 OCTOBER 2019 IN FLORENCE

PREAMBLE

We, the participants
of the 2019 Skillman
Forum, acknowledge the
importance of the
partnership with the
Erasmus+ Programme

In advancing the
sustainable and
inclusive development
of the European Union
and its member states
and in response to the
Industrial Revolution
and the challenges of
the 21st century, we
recognize the need for
a new paradigm of
learning and skills
development.

The ideas presented
at the International
Forum and its partners
are the basis for this
Declaration.

We recognize the
need for a new
paradigm of learning
and skills development
for the 21st century.
We call on all
stakeholders to
work together to
achieve this goal.

Skillman International
April 2020 ISBN 978-9-1-945-0000-0

July 2020
Pact for skills

EUROPEAN
SKILLS AGENDA
FOR SUSTAINABLE
COMPETITIVENESS, SOCIAL
FAIRNESS AND RESILIENCE

COUNCIL RECOMMENDATION on VET
for sustainable competitiveness, social
fairness and resilience

Nov 2020

COUNCIL

RECOMMENDATION

on vocational education and training (VET) for sustainable competitiveness, social fairness and resilience

Having regard to the Treaty on the Functioning of the European Union, and in particular Article 167 thereof,

Having regard to the proposal from the European Commission,

Whereas

- the Union has a strategic interest in ensuring that its citizens have the skills and competences needed to meet the challenges of the 21st century;
- the Union has a strategic interest in ensuring that its citizens have the skills and competences needed to meet the challenges of the 21st century;
- the Union has a strategic interest in ensuring that its citizens have the skills and competences needed to meet the challenges of the 21st century;
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skillman.eu/ethic-2021

REDEFINING THE
FUTURE OF
LEARNING



worldwide community
practitioners, researchers and institutions
work-based-learning approach
sustainability and ethical values
skills mismatch in AM sector

#weloveskills
#welovemobility

2020
data

COUNTRIES
96

REGIONS
391

CITIES
571

NEIGHBOURHOODS
49

> 600 members



Sector Skills Alliance for Advanced Manufacturing in the Transport Sector



DG EAC - € 1 M

Detecting skills needs
and designing
innovative curricula

EDUCATIONAL PROVIDERS



AWARDING BODIES



Joint European Curricula
and new qualifications
E-Learning and OER
Observatory on Advanced
Manufacturing Yearly
Outlook
Best Practices Success
Stories

2014 - 2017

Robotics and automation

Energy performance of processes
and vehicles

Innovative materials

Wireless technologies
and infotainment

ROBOTICS

STRUCTURE OF THE CURRICULUM

1. Programmable Logic Controllers
2. Maintenance of Automation
3. Fault-finding and diagnosis
4. Robot Processes and Functions
5. Automated Control Systems
6. Machine Software Design principles
7. Robot programming
8. Introduction to Simulation Engineering
9. Process Optimisation
10. Automation validation
11. Health & Safety in Engineering
12. Engineering Mathematics
13. Further Engineering Science
14. Engineering Communications

INDUSTRY & PRODUCTION 4.0

STRUCTURE OF THE CURRICULUM

1. Planning ICT solutions
2. Building ICT solutions
3. Running ICT solutions
4. Managing ICT solutions
5. Robot programming
6. Automated Control Systems
7. Machine Software Design principles
8. ICT in automated production lines
9. Process Optimisation
10. Automation validation
11. Collaborative robotics

COMPOSITES


STRUCTURE OF THE CURRICULUM

1. Introduction
2. Unit: Energy and Energy efficiency
3. Unit: Repair references, human factor and environment
4. Unit: Inspection of composite structures
5. Unit: Composite Structures Repair Process
6. Short course: Advanced Composite Repair Technician EQF-5 (5 days)


2019 - 2022

DG EAC - € 1 M


KABADA
AI



interface that interprets
and evaluates the given
input while guiding through
the creation of a bp



Based on templates of
business plans



Optimizer engine that
focuses on key points of
attention (missing SWOT,
no competition
analysis...)

Digital Approach
to Business idea
Assessment

Goal: creating an artificial
intelligence tool for
assessment of business
ideas in support to new
entrepreneurs

- step-by- step tool for business plan creation
- interactive module-based feedback
- Full guidance set-up
- Learning support for relevant fields of interest
- Evaluation of business plan
- Customized feedback

Knowledge Alliance

global CoVEs.eu

1' WAVE

8 CoVEs
distributed in 7
regions of 6
countries

36 Full
Partner
organisations

96 Associated
Partner
organisations

regional-authorities
and -governments

Fiat FCA, Toyota, Festo,
Kohler - Lombardini

industry leaders, research
centres, universities and
other umbrella and
international organisations

+ 600 SKILLMAN
MEMBERS



TL

The territorial level or **CoVE level**, composed of a TVET **provider** (as the CoVEs' coordinator) and one or more **companies**

IL

The **national** or **network/international level**, presided over by **industry leaders** and **international organisations**



Aim of the Centres of Vocational Excellence

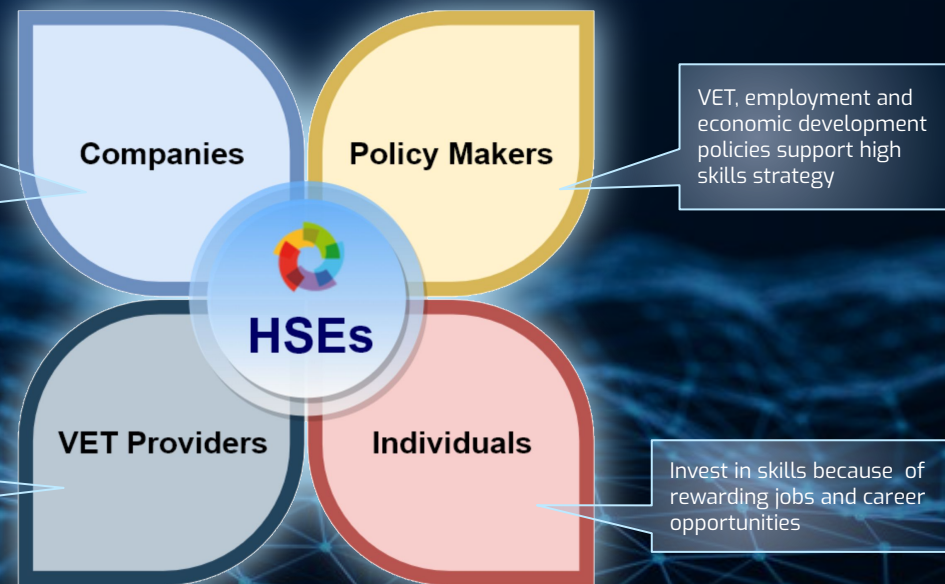
To create and foster local Skills ecosystem
bringing together

- Policy makers
- Companies
- Chambers
- VET institutions
- Universities of applied science
- Research centres
- Employment services/agencies
- Regional development agencies
- Professional or sector associations

See comparative advantage
to address skill
development and business
performance for
generating innovation and
growth

Responsive delivery at all
levels, that is valued by
individuals and
employers

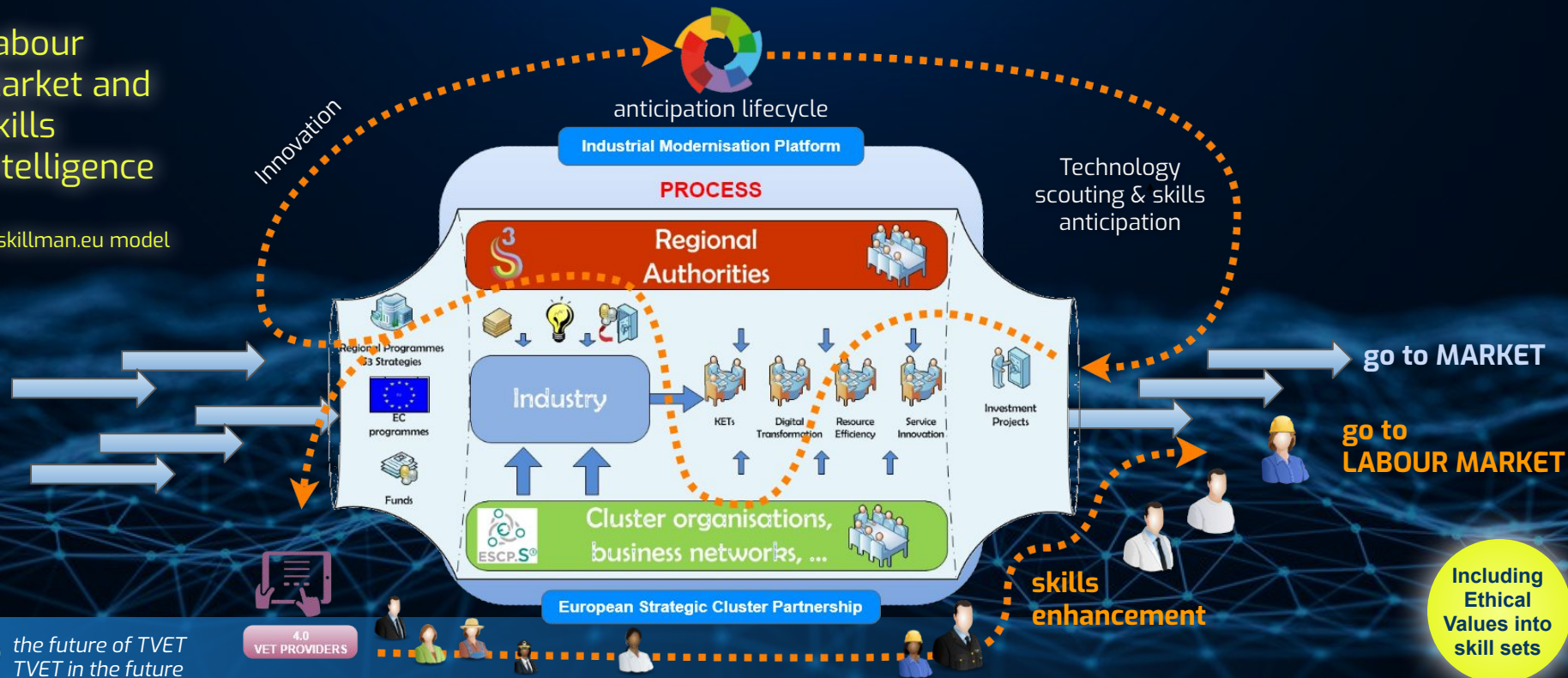
high-skills ecosystems^{*}



SAW skills anticipation wave

Labour Market and Skills Intelligence

© skillman.eu model



Peer Learning Clubs



LONG DURATION EFFECT

SKILLMAN.EU COMMUNITY FOR SKILLS INTELLIGENCE



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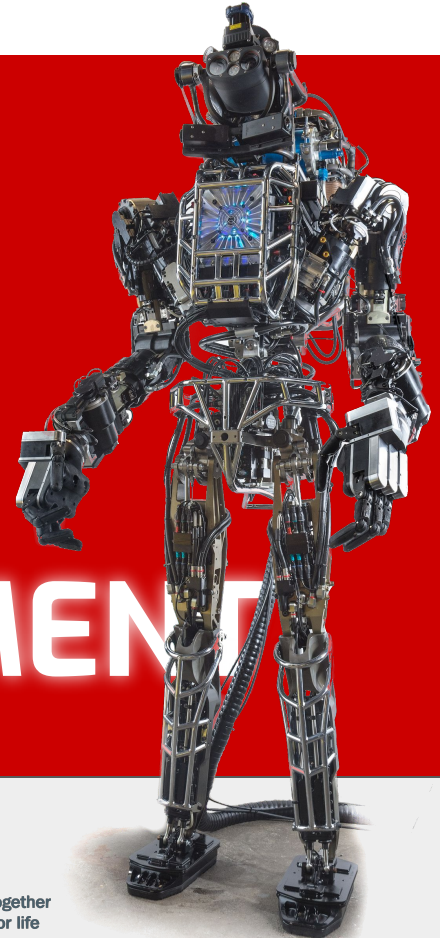


2020

Skillman International Success

*redefining the future of learning in
advanced manufacturing sector*

2021 SAT DEVELOPMENT





SAT references

Mapping of Centres of Vocational Excellence (CoVEs)
ET 2020 Working Group on VET, 2019

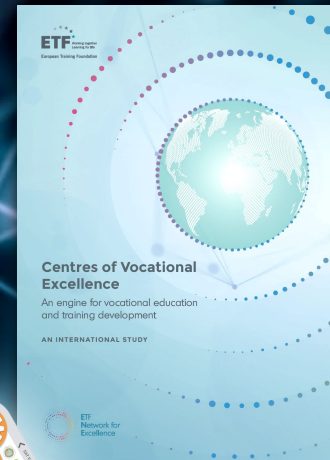
UNESCO-UNEVOC trends mapping - Innovation in
TVET (2019)

JRC SCIENCE FOR POLICY REPORT - The role of
Vocational Education and Training in Smart
Specialisation Strategies (2019)

Skillman Network, 'Global CoVEs - the future of TVET
/ TVET in the future'

DG Grow, Curriculum Guidelines for Key Enabling
Technologies (KETs) and Advanced Manufacturing
Technologies (AMT)

EXCELLENCE FOR ALL



25
**VARIABLES
FOR
EXCELLENCE**



Boosting excellence

GLOBAL COVES SAT

Self-Assessment Tool mechanism

goals level

average 2' year

goals level

average 3' year

goals level

average 4' year

Individual CoVE

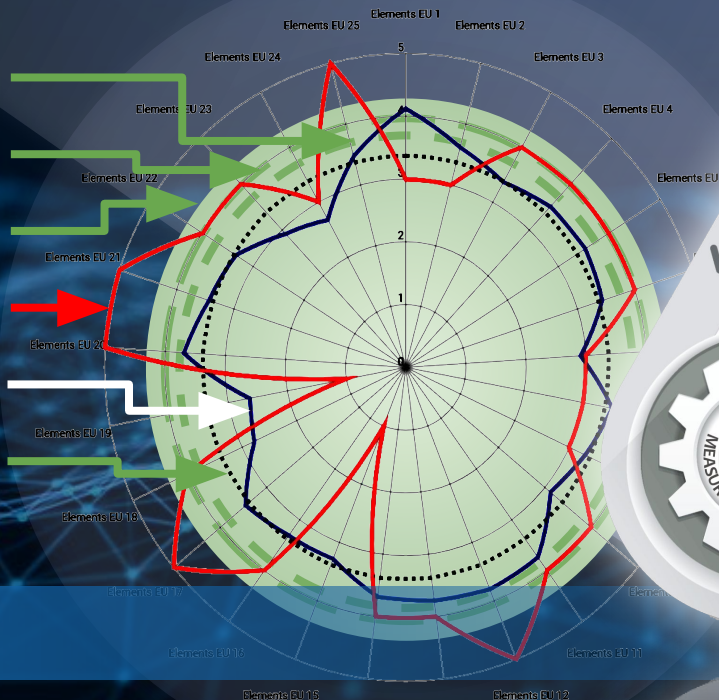
Institute Cuccovillo IT 2020

Global CoVEs

average per Element 2020

Starting level

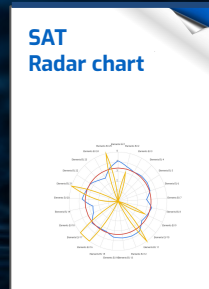
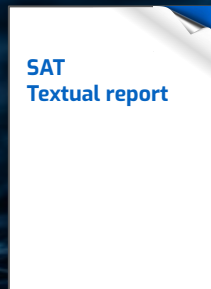
average 2020





SAT - General data from the first application early 2020

GLOBAL COVES SAT
Self-Assessment Tool mechanism



103 Organisations surveyed	1742 Oldest year of constitution	68,64 Percentage of personnel speaking English
424.486 Learners	2019 Earliest year of constitution	1.202 Active projects in the VET sector
13.212 Teachers	17.794 Incubated companies	1.802 Number of publications in the VET field in 2018
84.180 Employees	68,64% Percentage of employees who speak English	21.972 Computers
1.371 New projects in the last 3 years	3.001.897 Total number of projects from the constitution	218.171.499,29 € Value in Euros of the owned of didactic equipment
2, 3, 4, 5, 6, 7, 8 EQF levels covered by the group	1.874 Agreements active with other organisations	24.577.278.185,47 € Annual turnover in Euros Sum of all survey participants



The worldwide network for skills
in Advanced Manufacturing



combined efforts



CENTRES OF VET EXCELLENCE

8 coves.eu

SAT self
assessment tool



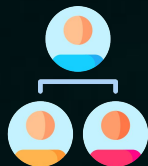
470

registered

DELEGATES @

Skillman International Forum

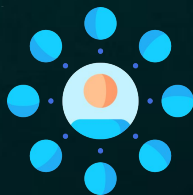
Bimonthly
newsletters to **30k+**
recipients



600+ members
300+ regions

93

countries



**FLORENCE
DECLARATION**
officially issued



Train the
trainers
workshops



Ambassadors

50+

Education providers
Industry

Global CoVes
Accreditation bodies

4 position papers
published



5000+
Skillman.eu users

Desk
service
for SMEs



4

Peer Learning
Clubs

208 experts

18 webinars
on EU fund
opportunities



20 EU Skills
Week seminars

Pact for skills

328 unit tests



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**Area
Coordinator**



**National
Coordinator**



**International
Board Member**



Counselor



Ambassador



**Editorial
Board Member**

Design the future

Put your face here



Skillman.eu

*Transnational platform of
Centres of Vocational Excellence*

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skillman.eu

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