

Webinar

21st September 2022

„Decoding Tech for Business“

Program / Project:	Talent Academy – Knowledge Sharing
Author:	Frank Nagorschel, Scientific Director Crystal Talent Academy
Scope:	Digital Transformation – Key Pillar to achieve European SDGs
Date:	21.09.2022
File Name:	CTS_Digital Transformation for EU's SDGs

DIGITALIZATION
DIGITAL TRANSFORMATION & DIGITAL TRANSITION*



SEE OUR INTERPRETATION

Digital Transformation shall mean to transform analogue data into digital data. Digitalization might be uses a synonym.

- **From** paper-based workflows **to** digital document handling systems, digital signatures and digital archiving.
- **From** regulating your production assets manually **to** Industry 4.0 and connected and digitalized production processes.
- **From** manually reading your electricity meter **to** using smart meters which transfer your electricity consume digitally.

Digital Transition shall mean to migrate/update/upgrade an existing digital solution to a new digital solution.

- **From** SAP ECC **to** SAP S/4 Hana.
- **From** licensed programs on premise **to** SaaS and subscription in Cloud.
- **From** isolated digital silos **to** vertical and horizontal integrated value chains to come from (data) volume to (data) value.

*Google Search delivers 1.2 million hits if you search for Definition of both terms “....”

INNOVATION



INNOVATION SEE OUR PREFERRED DEFINITIONS

MIT - Massachusetts Institute of Technology:

“Process of taking ideas from inception to impact”;
Idea is the match between a problem and solution.

Boston Dynamics

“Process of solving a problem in unconventional way that create values (\$\$)”.

OECD: Organisation for Economic Cooperation and Development

An innovation is a new or improved product or process (or combinations thereof) that differs significantly from the unit’s previous products or processes and that has been made available to potential users (product) or brought into use within the unit (process).

Less liked – as it defines the result of innovation but not innovation itself

EDUCATION



“**EDUCATION**, discipline that is concerned with methods of teaching and learning in schools or school-like environments.”



At CRYSTAL SYSTEM we believe that expanding qualified education is the only feasible way to generate long-term economic growth.



With CRYSTAL TALENT ACADEMY we have invested in a unique and innovative educational program available at 20 universities across 3 continents (4 in Romania)

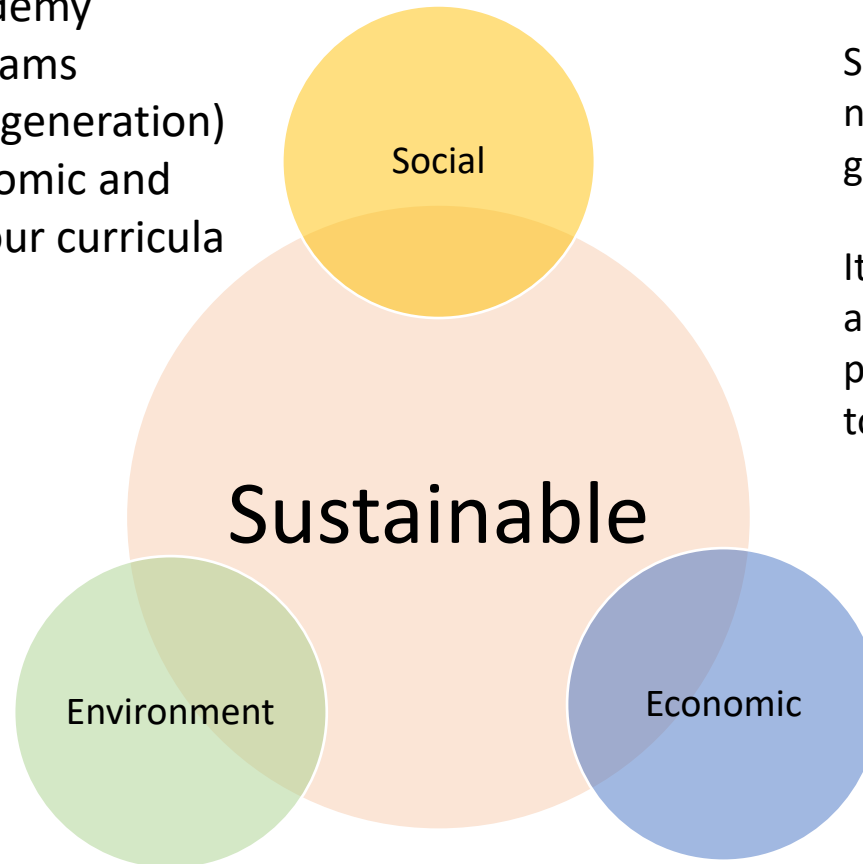


**“Investment in knowledge pays the best interest”
Benjamin Franklin**

SUSTAINABILITY



Crystal Talent Academy
Educational Programs
free for Students (future generation)
combining social, economic and
environmental topics in our curricula



Teach, Research &
Development, Test and
Demonstrate Solutions
to **reduce**
environmental impacts
of societal and economic
human activities

What is sustainable development?

Sustainable development means meeting the needs of the present whilst ensuring future generations can meet their own needs.

It has three pillars: economic, environmental and social. To achieve sustainable development, policies in these three areas have to work together and support each other.

https://policy.trade.ec.europa.eu/development-and-sustainability/sustainable-development_en

Crystal Technology
Crystal Consulting
Crystal BIM Solution
Crystal HR Solutions

AND HOW WE COMBINE ICT in – EDUCATION – INNOVATION – DIGITALIZATION WITH EUROPEAN SUSTAINABLE DEVELOPMENT GOALS



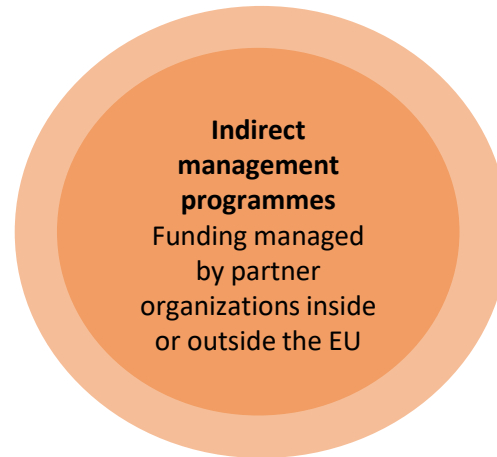
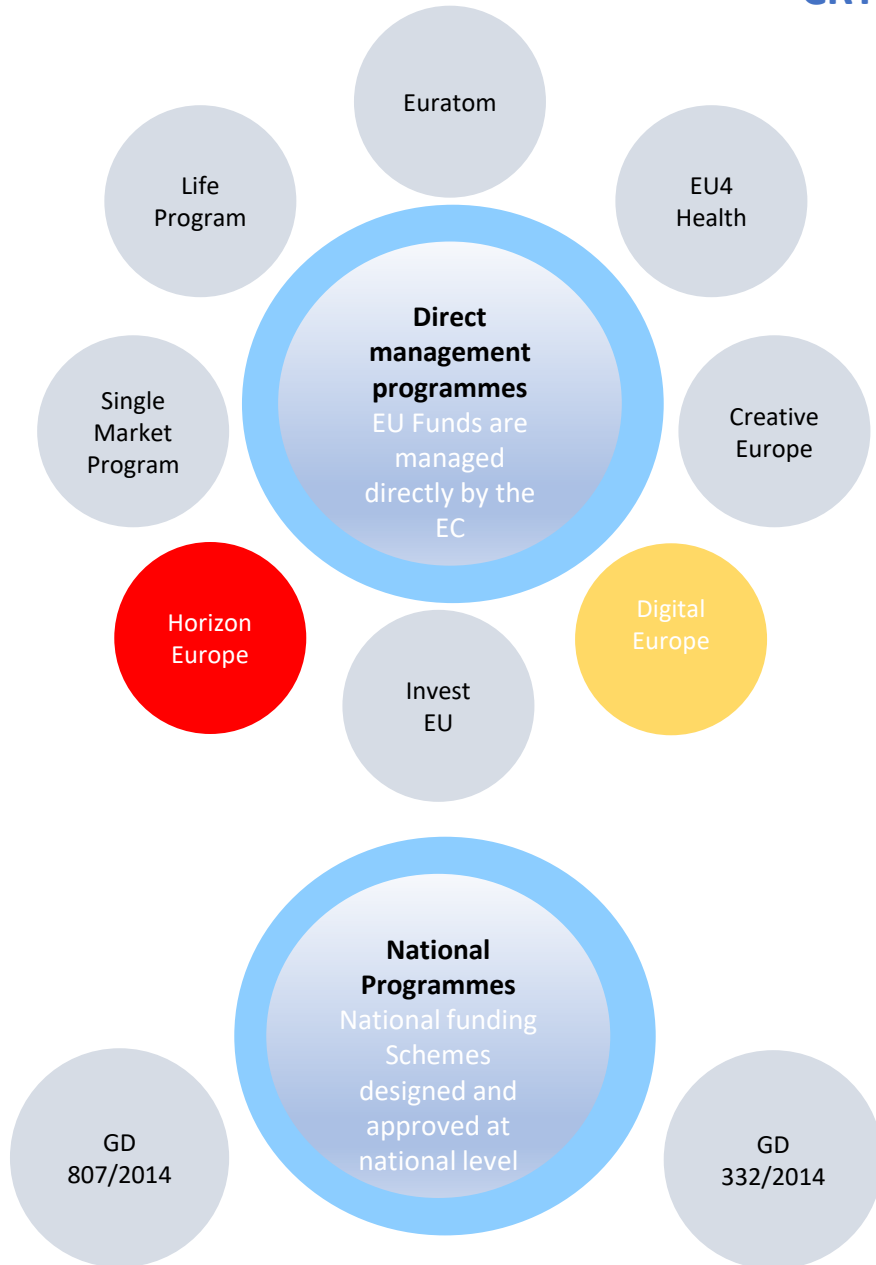
Digital4Development: Mainstreaming digital technologies and services into EU development policy approach, digitalization is mainstreamed into EU development policy across four main priority areas out of which **Crystal System serves 3 as listed below:**

- Promote digital literacy and skills;
- Foster digital entrepreneurship and job creation; and
- Promote the use of digital technologies as an enabler for sustainable development

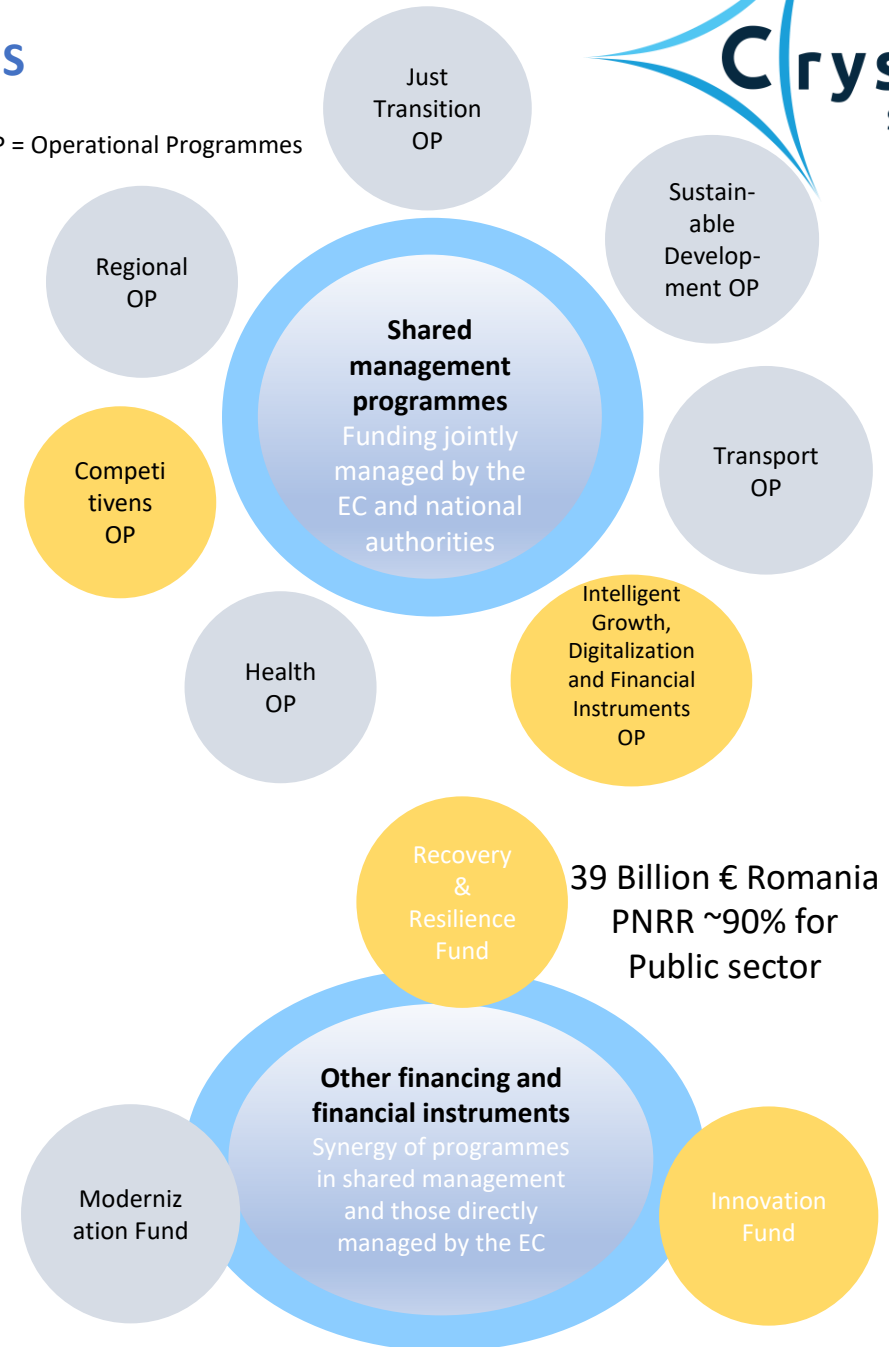


<https://europa.eu/capacity4dev/results-and-indicators/digitalisation>

CRYSTAL SYSTEM – EU PROGRAMS



OP = Operational Programmes



CRYSTAL SYSTEM – EU HORIZON

[AI, Data and Robotics for Industry optimization \(including production and services\)](#)
(AI, Data and Robotics Partnership) (IA): [HORIZON-CL4-2022-DIGITAL-EMERGING-02-05](#)

Expected Outcome:

Proposal results are expected to contribute to at least one of the following expected outcomes:

Advancing AI, data and robotics, and automation for the optimization of production and **services value-chains**, optimization of products, services, processes, to increase competitiveness, improve working conditions, and environmental sustainability, and supporting the European Economy using AI, data and robotics technologies.

AI or learning systems (including, but not limited to self-learning, continuous and transfer learning, self-configuring systems) adapting production or services workflows to changing environments, dynamic and unpredictable resource constraints and to the capabilities and restrictions of humans and transferring results from one domain to another.

Scope:

Proposals are **expected to integrate and optimize AI, data and robotics solutions** in order to demonstrate, by addressing use-cases scenarios in actual or highly realistic operating environments, how they optimize production and service use cases.



Factory Resilient Reactive Platform

Crystal System – Contact



Frank Nagorschel

Scientific Director Crystal Talent Academy
Director Marketing

E-mail: frank.nagorschel@crystal-system.eu

GSM: +40 753 030 130

Web: www.crystal-system.eu
www.crystal-bim.com