Adult education in Italy

The way forward **Technical specifications**

document This document presents findings on

opportunities for advancement in the bioeconomy sector in Italy, highlighting the needs for skills, existing education, gaps and needs in promoting education. It also includes 3 relevant case studies collected from the country.



Opportunities for Advancement

Utilization of rich biodiversity and agricultural ecosystem services; adaption of local crops/varieties

& Food Industry

Smart Agriculture

available regionally to climate change and low-input cultivations; utilization of the innovative precision-farming and breeding techniques, enabled by available digital services; adoption of new business models for the diversification of rural incomes; valorisation of the underexploited agricultural, forestry and breeding residues and side streams with the production of food ingredients and valuable bio-based chemicals, fertilizers and energy.

areas and engineering measures for the reconversion of abandoned

Bio-based Industry

Adaption of new regenerative processes for cleaning polluted

industrial and urban sites: conversion of former oil refineries/industrial sites into biorefineries; adaption of new emerging technologies for capturing and converting CO2 into fertilizers, chemicals and polymers.

well as of agri-food waste to be exploited for the integrated

Smart Food Industry

Food by-products to be used for the production of food ingredients, as

production of bio-based chemicals, materials, energy, fertilizers and compost; implementation of New Urban Food Systems – local food production and distribution of fresh and nutritional value products, which create new business opportunities. **Marine Bioeconomy**

and robust aquaculture supply chains.

Utilization of environmentally safe practices for marine aquaculture

Eco Tourism

Use of new emerging business

models for connecting tourism to

ecosystem valorisation; utilization

of the country's unique landscape

and cultural heritage as the resource of local communities according to sustainable and integrated schemes.

On educational/academic level

Needs for Skills

(communication skills, teamwork, entrepreneurship, innovation mindset, etc).

On private sector level 7,7% of the working population in Italy are employed in the bioeconomy sectors and

identification of the main professional roles in the field of bioeconomy and circular economy are thus needed; implementation of in-house training, micro credentials and

work-based learning; further exploitation of the developed digital background.

Improvement of the bioeconomy and circular economy education giving the students more opportunities to learn about the bio-based industry sector; improvement of the methodologies for bioeconomy and circular economy education to support soft skills

On governmental level Promotion of public dialogues to increase understanding of bioeconomy. There is a dedicated governmental Italian Bioeconomy Strategy (BIT) from 2017 which was updated in 2019 (BIT II) – the whole frame has a dedicated multi-ministerial

governance, orchestrated by the Ministry of Education.



• BIOCIRCE Master Program is an interdisciplinary program jointly offered by 4 Universities by 4 non-academic partners and 2 Italian Technological

• Italy can become a pioneer in European scale in matters of Bioeconomy and/or art thanks to the

relevant role of the social partners;

• Italian education in bioeconomy is characterized by

Higher education:

Italian higher education institutions:

- Many existing life-long learning and vocational training opportunities.
- Gaps & Needs in **Promoting Education**



programmes.

3 Case Studies

environment with an emphasis on sustainability.

training courses, which are tailor-made and focused on the needs of the target groups; provision of soft skills, especially, entrepreneurial skills and transversal skills,

Vocational training:

at factor cost and employment is agriculture, with 45% of people being employed in this sector, there is a lack of an organizational umbrella and the activities and priorities are fragmented.

On training level Lack of accessible, flexible and free online

such as self-confidence, self-awareness, time management, prioritization, communication skills, and skills connected to running/or being a part of a business; the need to set up a unified certification scheme valid through EU for VET and LLL; enhance coordination of

policies/governance mechanisms across ET in

On private sector level

Although the agriculture is the largest bioeconomy sector in terms of value added

different bioeconomy sectors.

On societal level Increasing of the emigration waves will enhance the issue of managing and educating the marginalized groups; a potential brain-drain due to the lack of motivation.

On governmental level

The Italian government launched the Italian Bioeconomy Strategy in 2017 and updated it in 2019 - however, there are no data on the level of implementation of this strategy; bioeconomy is not fully aligned with the

socioeconomic priorities of the country; lack of a concrete national plan aiming to identify and then to integrate the marginalized groups.

Case Study 3

Case Study 1

Bioeconomy education, training and retraining and Inclusion of marginalised groups | COpAPS - Cooperative for Productive and Social Activities /Emilia- Romagna, Italy

Case Study 2 Bioeconomy education, training and retraining in Vocational Education and <u>Training (VET) | The Higher Technical Institutes (ITS)</u> /All Italian regions

Purpose: ITSs are new schools with a high technological specialisation that create two-year

enter the strategic sectors of the economic-productive system. 40% of the total number of course hours are dedicated to internships in companies.

marginalised people /Apulia, Italy Purpose: Addressing the phenomenon of young NEETs. Over 2 million young people in Italy, aged 15-29, are not engaged in study, work or training. "Link" is a project promoted by the Department for Youth Policies and the Universal Civil Service in collaboration with ANCI. It is financed in the context of a public

Using art to address different learning styles and facilitate the inclusion of

contexts, solidarity and active citizenship. Under the management of the Link Cultural Association, the Agorateca community library was established and training activities were implemented with a strong focus on sustainability and inclusion. **Consortium**

PEDAL

call for the Italian municipalities wanting to develop innovative projects and actions. The Link Cultural Association was founded by a group of young people eager to encourage openness to other cultural







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