









## ITALIAN MICROBIAL CULTURE COLLECTIONS (mCCs)



### Joint Research Unit (JRU) MIRRI-IT (from 2017)

- ► Improving Quality Management System of mCCs
- ➤ Addressing needs of stakeholders operating in the biotechnology transfer

### SUS-MIRRI.IT partners (from 2022)

- ► Empowering facilities of Italian mCCs with cutting-edge technologies
- Implementing the offer of services
- Addressing weaknesses of Italian mCCs to reach MIRRI-ERIC standards

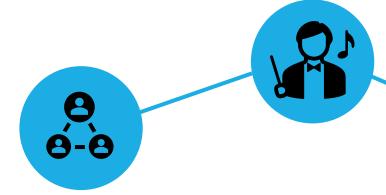
### CREATION OF THE MIRRI-ERIC ITALIAN NATIONAL NODE

#### MIRRI-IT

#### Harmonisation of the service offer

proposed by Italian mCCs in accordance with international rules (Nagoya Protocol, Intellectual property rights, Privacy, Biosecurity, etc)

**Supporting entry** of new partners

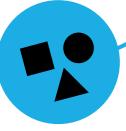


Activity coordination of Italian mCCs

after Partner Charter signature



Poster \$8.9 WP2



Overcoming fragmentation in the availability of resources, skills, and services of Italian mCCs by improving QMS, complementarity, reducing redundancy, and operating via a single access point



**Providing high-specialised Training** and professional growth initiatives

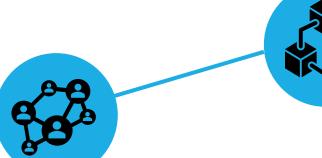
## CREATION OF THE MIRRI-ERIC ITALIAN NATIONAL NODE

#### MIRRI-IT

Activation of working groups on "microbiological" topics and issues involving different stakeholders (SMEs, Research Institutes, freelancers, local authorities, civil society, etc)

**Proposing a strategic policy** for the future sustainability of









Creation of synergies and collaborations between mCCs and policy makers (Government, Ministries, and territorial bodies), public Institutions (Hospitals, National Parks, etc), Research centres, other Italian and European RIs **Expanding communication activities** of Italian mCCs to groups of interested users (citizens, schools, scientific community, industrial community, policy makers, etc) through website, social media and newsletters

### OFFER OF SERVICES

#### MIRRI-IT

for Scientific operators

Single access point

Extensive catalogue of certified microbial resources and metadata (many of them are exclusively available from Italian collections)

Innovative research facilities and cuttingedge technological platforms for different types of microbial analyses

Excellent technical-scientific consultancy Advanced training courses



**Management optimization** (software, bioinformatic workflows and pipelines, catalogue)

**Increased visibility** on the national and international scene

Increased profitability and therefore future sustainability

Promotion of **partnerships** with different stakeholders

QMS, IT, ELSI, Training support



**Synergies/collaborations** (aggregation of skills and resources)

Scientific and technological development (exchange of knowledge)

Competitiveness of European products and services

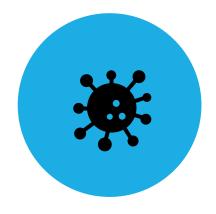
Support in **community political decisions** in the agri-food, environmental, and health fields

Promotion of **eco-sustainable industrial processes** (innovative, safe and environmentally

friendly European bioeconomy)

### STRENGHTS OF THE ITALIAN NATIONAL NODE

#### MIRRI-IT



AVAILABILITY OF SPECIFIC STRAINS NOT PRESENT ELSEWEHRE

(E.G. PLANT VIRUSES)
Hopefully soon: MICROBIAL
CONSORTIA



LONG-ESTABLISHED KNOWLEDGE,
EXPERTISE AND SKILLS IN SPECIFIC
SECTORS (E.G. BIO-RESTORATION OF
CULTURAL HERITAGE, PLANT VIROLOGY,
BIOINFORMATICS, VETERINARY
RESEARCH)



ALREADY 7 YS OF
COOPERATION AND
NETWORKING IN JRU MIRRI-IT

# IMPACT OF THE ITALIAN NATIONAL NODE

#### MIRRI-IT

#### **Economic value**



CATALOGUE OF >100.000
PRECIOUS MICROBIAL RESOURCES
AND ASSOCIATED METADATA
(AVAILABLE TO DATE: 37.000)

New products and processes for bioeconomy, Green transition, R&I in academia and industry engagement

#### Knowledge value



SCIENTIFIC COMPETENCE IN MICROBIAL CHARACTERISATION, CONSERVATION, CULTOROMICS, TAXONOMY, BIOINFORMATICS

Support for policy makers, government agencies, public Institutions, local authorities...

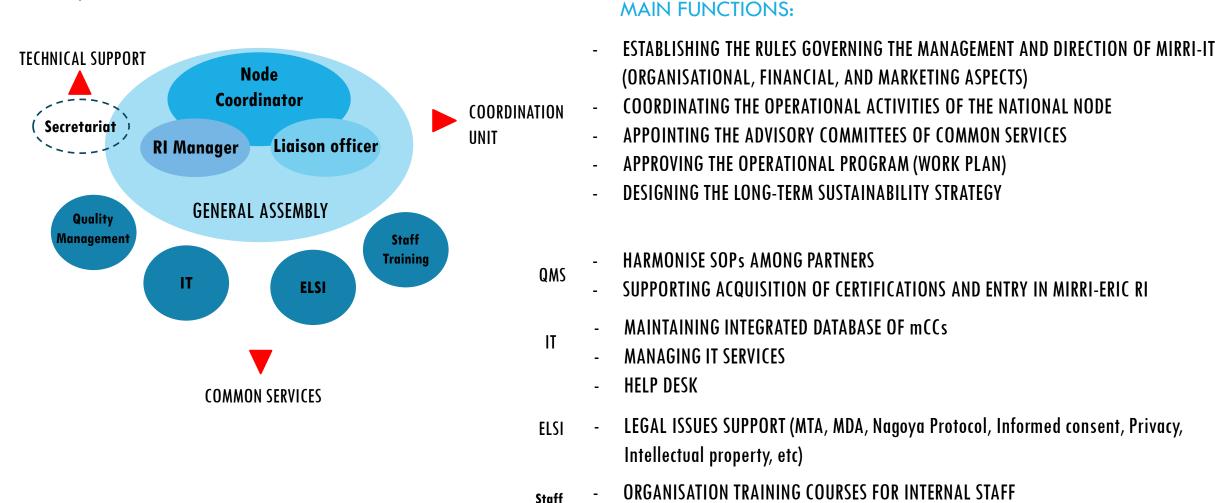
#### **Development value**



BIOTECHNOLOGICAL TRANSFER APPLICATION IN HEALTH, FOOD, AGRICULTURE, ENVIRONMENT, ENERGY FIELDS

Renovable energy sources, Potential to face big challenges of nowadays (e.g. climate change, pollution, planet sustainability) and reach UN SDGs

### POSSIBLE GOVERNANCE STRUCTURE OF MIRRI-IT



**Training** 

SUPPORT FOR STAFF PROFESSIONAL GROWTH

### PRELIMINARY MARKET ANALYSIS OF STAKEHOLDERS

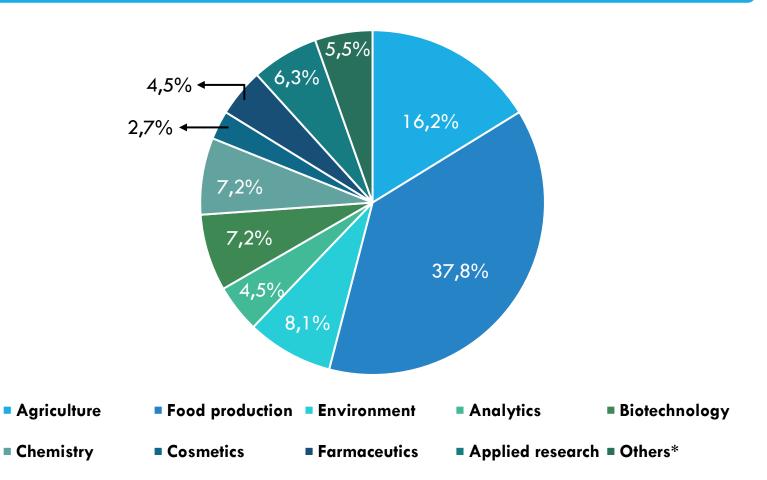
DATA HAVE BEEN COLLECTED BY SUS-MIRRI.IT WP5 (SERVICES & EDUCATION)

### **SURVEY**

about 600 companies cooperatives consortia

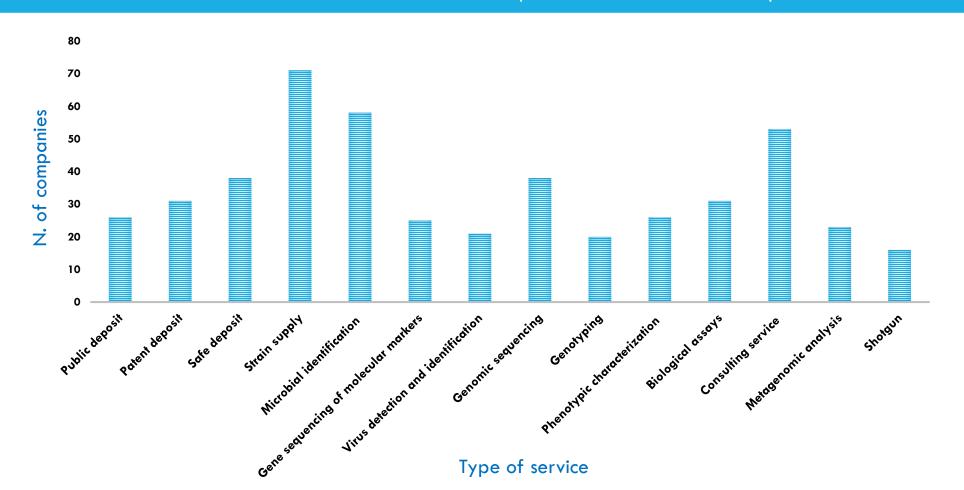
20% REPLIES 84% SMEs

16% BIG COMPANIES



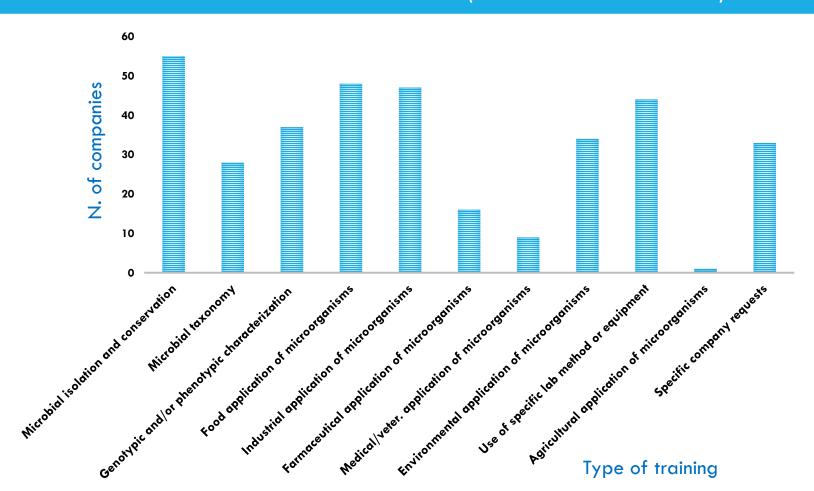
### PRELIMINARY MARKET ANALYSIS OF STAKEHOLDERS

### FUTURE SERVICES OF INTEREST (TAILORED ENGAGEMENT)



### PRELIMINARY MARKET ANALYSIS OF STAKEHOLDERS

### FUTURE TRAININGS OF INTEREST (TAILORED ENGAGEMENT)



### **CHALLENGES**

### MIRRI-IT: ITALIAN NATIONAL NODE OF MIRRI-ERIC RI



CONTINOUS IMPROVEMENT OF QUALITY MANAGEMENT SYSTEM



MEETING STAKEHOLDER'S EXPECTATIONS VIA TAILORED ENGAGEMENT



#### IMPLEMENTATION OF FAIRNESS

(DIGITAL INFORMATION AND TECHNOLOGY ACCESS, PARTICULARLY REMOTE ACCESS TO REDUCE ECOLOGICAL FOOTPRINT)



INCREASING PARTNERSHIPS,
SYNERGIES AND NETWORKING

AMENDED CAPACITY BUILDING
TO STAY AT THE FOREFRONT OF
SCIENCE AND TECHNOLOGY



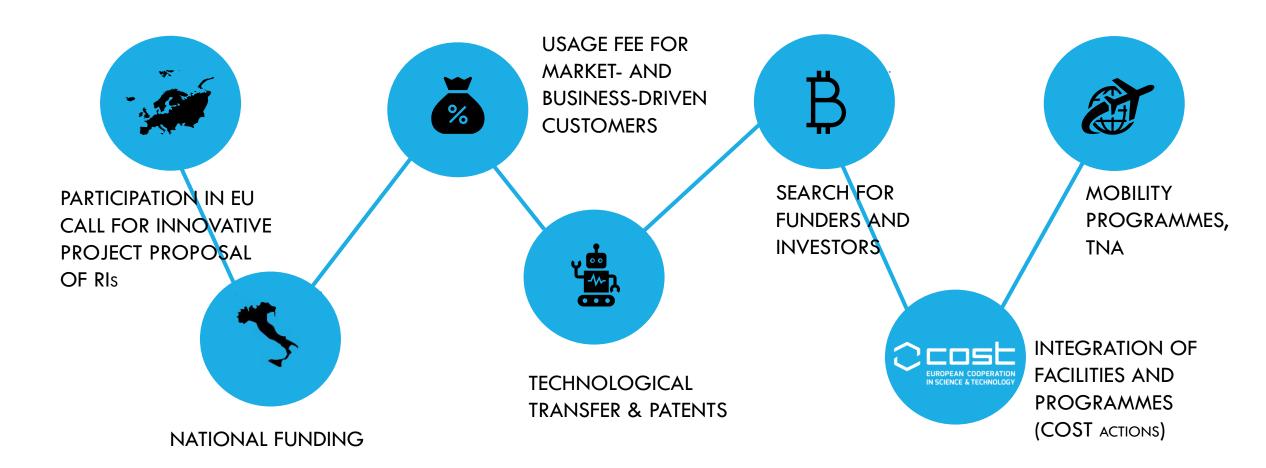
TOP-LEVEL STAFF



UPHOLDING OF STRATEGIC
FRAMEWORK PROGRAMME FUNDING
FOR FUTURE SUSTAINABILITY

### FUTURE SUSTAINABILITY

### MIRRI-IT: ITALIAN NATIONAL NODE OF MIRRI-ERIC RI





### SUS-MIRRI.IT TNA & NOA

MIRRI-IT: ITALIAN NATIONAL NODE OF MIRRI-ERIC RI

### **STAY TUNED**

TRANS NATIONAL ACCESS



**NATIONAL OPEN ACCESS** 

HTTPS://WWW.SUS-MIRRI.IT/









