

STATEMENT OF INTENT

Proposed Swiss Biotech Industrial Biotech Platform (SIBP), a Swiss Biotech Association Chapter

Updated 4th April 2023

INTRODUCTION

In addition to its contribution to human health, biotechnology can generate effective solutions to global industrial and environmental challenges.

Industrial Biotechnology (IB) allows for more energy-efficient and sustainable manufacturing processes as well as creating opportunities for abating pollution, using waste and creating new products. It underpins a circular economy, and sustainable chemicals industry and can help to protect scarce natural resources. It is likely to impact many aspects of everyday life through new biobased products and processes with far reaching and disruptive impacts. This is in stark contrast to traditional manufacturing processes that often rely on non-renewable resources, using high energy processes, as well as resulting in pollutants that are hard to manage (especially greenhouse gases).

Biotech is likely to be a transformational technology over the next 20 years with forecasts of a USD 4 trillion annual market¹ of this 20-25% could be accounted for by industrial and environmental biotechnology. This IB market of \$800bn² is even larger if the value of enabling infrastructure and engineering is also considered.

Given Switzerland's strengths in biotechnology research & development, it can improve healthcare and the environment globally. This builds on its world-leading universities and research centers and frequent ranking as the global leader in innovation. While it is already making this impact felt in healthcare (with medical biotechnology), it can build on its strengths to emerge as a leading proactive partner in environmental protection through international collaboration.

This document lays out Swiss Biotech's proposal for a "Platform" to promote the development of a world-leading industrial biotech industry hub and innovation center in Switzerland. To support this platform, the Swiss Biotech Association is forming a new chapter which will be launched at the Swiss Biotech 2023, on April 24 in Basel.

SIBP MISSION

The Swiss Biotech Industrial Biotech Platform "SIBP" will foster collaboration between industry participants, accelerate commercially-relevant innovation and promote the industrial biotech industry in Switzerland to key stakeholders in Switzerland and its international business partners

¹ <https://www.mckinsey.com/industries/life-sciences/our-insights/the-bio-revolution-innovations-transforming-economies-societies-and-our-lives>

² The Global White Biotechnology Market Size to grow from around USD 200 billion today to USD 700-800 billion by 2030. Source:

<https://www.globenewswire.com/en/news-release/2022/11/18/2559011/0/en/Global-White-Biotechnology-Market-Size-to-grow-USD-714-6-Billion-by-2030-CAGR-of-12.html>

SPECIFIC OBJECTIVES

The SIBP will provide a pre-competitive environment in order to :

1) *Fostering networking through strategic, national and international partnerships*

The SIBP will bring together stakeholders, knowledge and expertise that is committed to the wider development of the industrial biotech ecosystem in Switzerland. It will seek to establish cross industry/cross value chain co-operations,

In practice this will include connecting industry and industrial biotechnology clusters; organizing and co-promoting national and international life science events; and providing access to privileged information through industry platforms and working groups.

This will also include supporting the development of CDMOs (Contract Development and Manufacturing Organizations) and services companies supporting in R&D, piloting and production.

2) *Attracting talent, know-how and financial resources to drive innovation and growth.*

The SIBP will work with its participating members and other stakeholders to create the enabling environment, information and know-how to accelerate development of innovative and commercially valuable products and catalyze growth in the industry by:

- Identifying market trends and opportunities
- Working with stakeholders to create favorable and competitive framework conditions
- Providing input industry and research priorities including the development of a broader enzyme/microbial 'toolbox' to meet industrial requirements
- Engaging with/inform key stakeholders, especially in the finance community, organization such as Euresearch, and with potential future customers to promoting and facilitating access to funding opportunities, as well as commercial opportunities in the industry
- Facilitating access to national and international talent
- Offer and promote education opportunities in Industrial Biotechnology

3) *Promote the industrial biotech industry in Switzerland*

The SIBP will provide a central information source for industry participants, stakeholders and other interested parties as a subsection of the Swiss biotech directory. Ultimately the SIBP aims to be a key point of contact for third party stakeholders (e.g., government) and become the "go to" location for information on the industry

The SIBP will present and promote the tangible benefits of industrial biotech for Switzerland to Swiss industry, investors, Cantonal and Federal government and the general public, including:

- Reducing greenhouse gases and pollution
- Developing a circular economy
- Reducing reliance on fossil fuel
- Improving the competitiveness of the life sciences industry
- Future proofing the chemicals industry
- Improving manufacturing
- Creating new materials and products
- Creating high value jobs and export income

Furthermore, it will also proactively promote the industry and its accomplishments to key stakeholders. This will include documenting success stories to promote the contribution of industrial biotech.

4) *Developing favorable and competitive framework conditions*

Building on the broader success of Swiss Biotech in Life Sciences, the Platform will also work to develop favorable and competitive conditions by:

- Creating awareness of the biotech industry's needs and interests with policy makers
- Advocating a competitive tax system alongside lean and pragmatic regulations
- Fostering life science education, technology transfer and intellectual property

INTENDED PARTICIPANTS

By building a network of organizations and people in Switzerland, the initiative will focus on those aspects of Industrial Biotechnology where Switzerland has a unique, enduring and strong competitive advantage over the next 5 years:

- Companies in the industry value chain (including both larger corporations and SMEs)
- Networks of organisations whose members can be interested and could extend existing activities to support the network
- Academics and universities/research organizations
- Customers / adjacent sectors; This includes major industrial companies, ideally based in Switzerland in chemicals, mining, food, agriculture, and other sectors.
- Finance providers; this will include specialist industrial biotechnology investors, corporate and general VCs as well as other major financial institutions. In addition, investor networks especially those with broader sustainability focus will be considered.
- Other service providers including chemical engineering, consulting groups, and legal and other services.
- Government (both Cantonal and Federal) and other stakeholders

PROPOSED OPERATING MODEL

The operating model will use a blended approach including:

- Specific activities at Swiss Biotech Day (24th and 25th April):
- On-line working groups on specific topics
- Participation in other subsequent events to be confirmed