

Biotechnology and Sustainability at scienceindustries

Biotechnet Meet-Up 2024, Bern

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Wirtschaftsverband
Chemie Pharma Life Sciences

scienceINDUSTRIES
S W I T Z E R L A N D

scienceINDUSTRIES

SWITZERLAND

Business Association Chemistry Pharma Life Sciences

> 250 member companies:



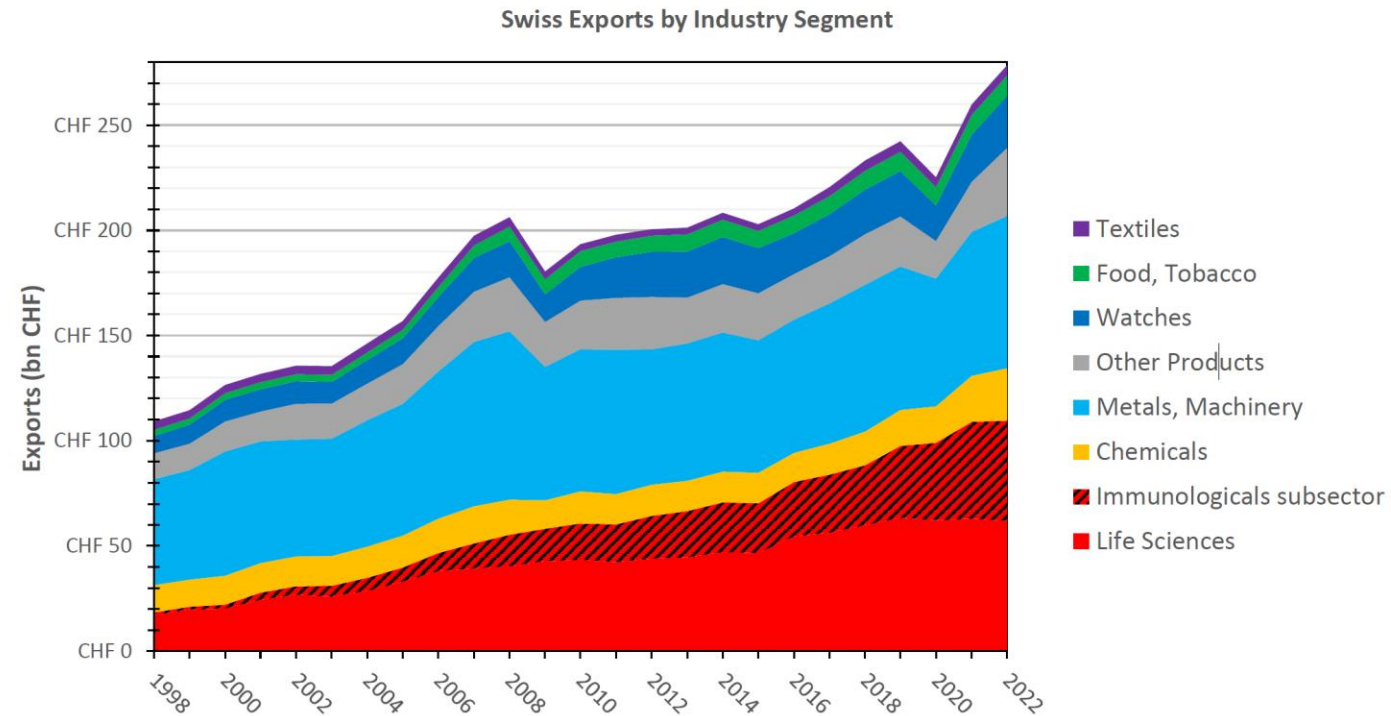
Biotechnet Meet-Up 2024

Our industries: the drivers of Switzerland's growth

scienceINDUSTRIES S W I T Z E R L A N D

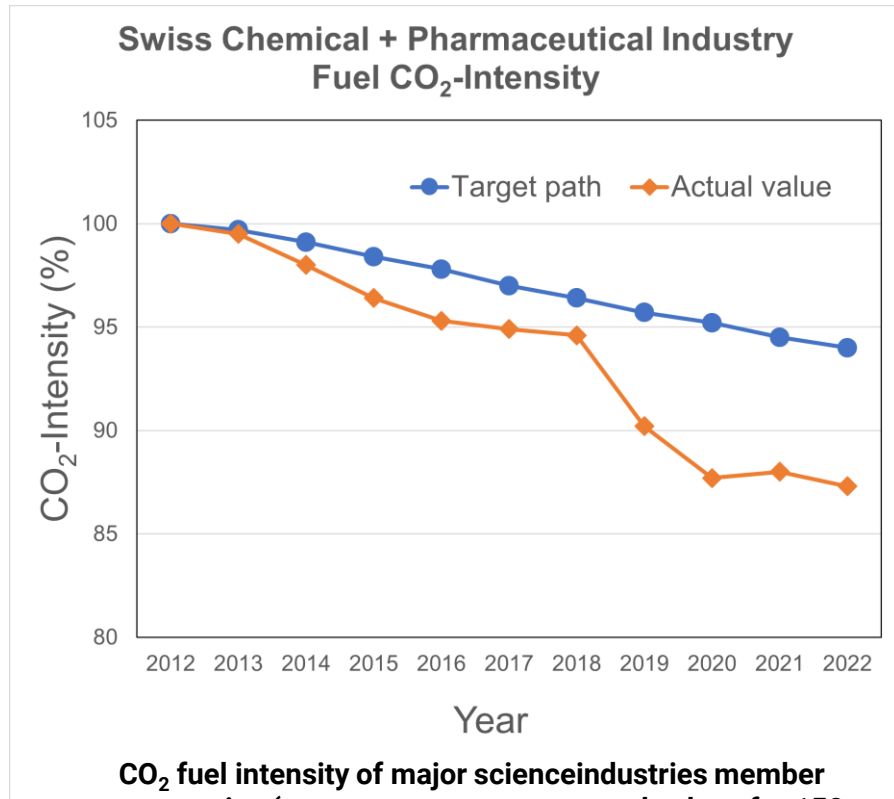
Facts

- Largest export industry (52%)
- Largest research industry (40%)
- More than 74,000 employees in Switzerland
More than 338,000 employees worldwide
- More than 250 member companies
- Established in 1882



*The life sciences sector (pharmaceuticals, vitamins and diagnostics) represents the largest export industry of Switzerland. In 2022, it accounted for **39% of total Swiss exports** and added a record CHF 109.6 billion (+0.6% over 2021) to the foreign export trade.*

scienceindustries + sustainability



CO₂ fuel intensity of major scienceindustries member companies (target agreements vs. actual values for 150 production sites). Graphic: scienceindustries, data: Energy Agency of the Swiss Private Sector EnAW 2023

- **Sustainability very important for scienceindustries member companies** (Energy, GHG emissions, raw materials...)
- **96%** of large member companies have or are preparing strategies to become **climate neutral**
- Companies have own sustainability strategies / reporting, scienceindustries supports / coordinates

Industrial Biotechnology as enabler of sustainability

- **More resource-efficient biotech production replaces chemical synthesis** (e.g. Vitamin B2)
- **Limited botanical raw materials replaced by renewable carbon sources** (e.g. Flavor & Fragrance Industry)
- **Omega-3 fatty acids from algal biotech replaces fish meal for aquaculture**
- **Biobased instead of fossil raw materials** (e.g. plastics, textiles...)
- **«Carbon capture and utilization»** by microorganisms to produce chemicals
- **Animal-free dairy products and meat substitutes** by precision fermentation and cellular agriculture

How we support Industrial Biotechnology



- **Communicate benefits of IB** (basis for political and consumer attitudes!)
- **Support research programmes** (e.g. biocatalysis) and **strategy development** (e.g. bioeconomy strategy Switzerland)
- **Improve existing legal framework conditions for IB** (e.g. product authorization procedures)
- **Support development of new regulation** (e.g. shift from process to product based authorization process for genetically modified microorganisms)
- **Engage in development of international framework conditions** (e. g. access & benefit sharing rules for the use of genetic resources)