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Embassy of Switzerland in India and Bhutan

Switzerland's Economic Footprint in India

An Impact Study of Swiss Investments in India

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About 120 Indian companies present in Switzerland

Foreword by the Ambassador of Switzerland in India and Bhutan

Dear Reader,

Switzerland and India are partners. Both our countries are democracies with diverse societies. We share common values. Hence, it is no coincidence that the peoples of Switzerland and India are largely connected. On an average, before COVID, about 280,000 Indian tourists have been visiting Switzerland annually and discovered its beautiful and surprising as well as exciting facets. Also, many Swiss tourists are attracted by the long history of India and its cultural depth.

Switzerland and India are also closely interconnected and highly complementary when it comes to trade and business. Around 323 Swiss companies have invested in India and are present with a subsidiary, a joint venture, a representation or liaison office.

Together, they have created more than 135,340 jobs at all levels and in various sectors. Swiss companies employ highly qualified IT specialists, who develop complex applications in the 30 R&D centers which Swiss companies operate in India. In other words, some of the Swiss intellectual capital is located in India.

Moreover, they create jobs for practically skilled people in the manufacturing sector. 108 Swiss companies, and thereby more than one third of the total Swiss presence, manufacture in India. By that, they help India to achieve its goals like the ones set in the Make in India campaign. More than two thirds of the Swiss companies with manufacturing activities in India use India as an export hub.

Swiss companies are sensitive to the existing business environment in India. The fact that 96 percent, and thus the vast majority of Swiss companies currently present in India, came to India after the liberalization of 1991, is a strong indicator of this.

These are only some of the key insights into Swiss investments in India. This publication contains detailed information about Indo-Swiss trade relations. It includes a detailed geographical, sectoral and functional analysis of Swiss investments in India. It lists Swiss contribution to regional, sectoral and skills development. Finally, Switzerland contributes to innovation and healthcare as well as to social development in India.

But it is not just Switzerland that has an economic footprint in India. India also has an economic footprint in Switzerland. 140 Indian companies contribute to the strong Swiss business and innovation ecosystem by accelerating international growth via Switzerland. Most of the Indian investors in Switzerland are from the ICT and Pharma/Biotech/Life Sciences sectors and are located in the vibrant industry clusters of Greater Zurich Area, Lake Geneva and Basel Area. By dealing with high tech companies in Switzerland, India gets access to one of the most innovative ecosystems worldwide.

Hence, there is no doubt that Switzerland and India have complementary economies which offer stimulus to each other. We must take this opportunity to further strengthen economic ties between our countries. Both countries will benefit from it. I hope you will enjoy reading the publication discovering many new insights about the Indo-Swiss relationship.

Sincerely yours,
Dr. Ralf Heckner

Key Highlights

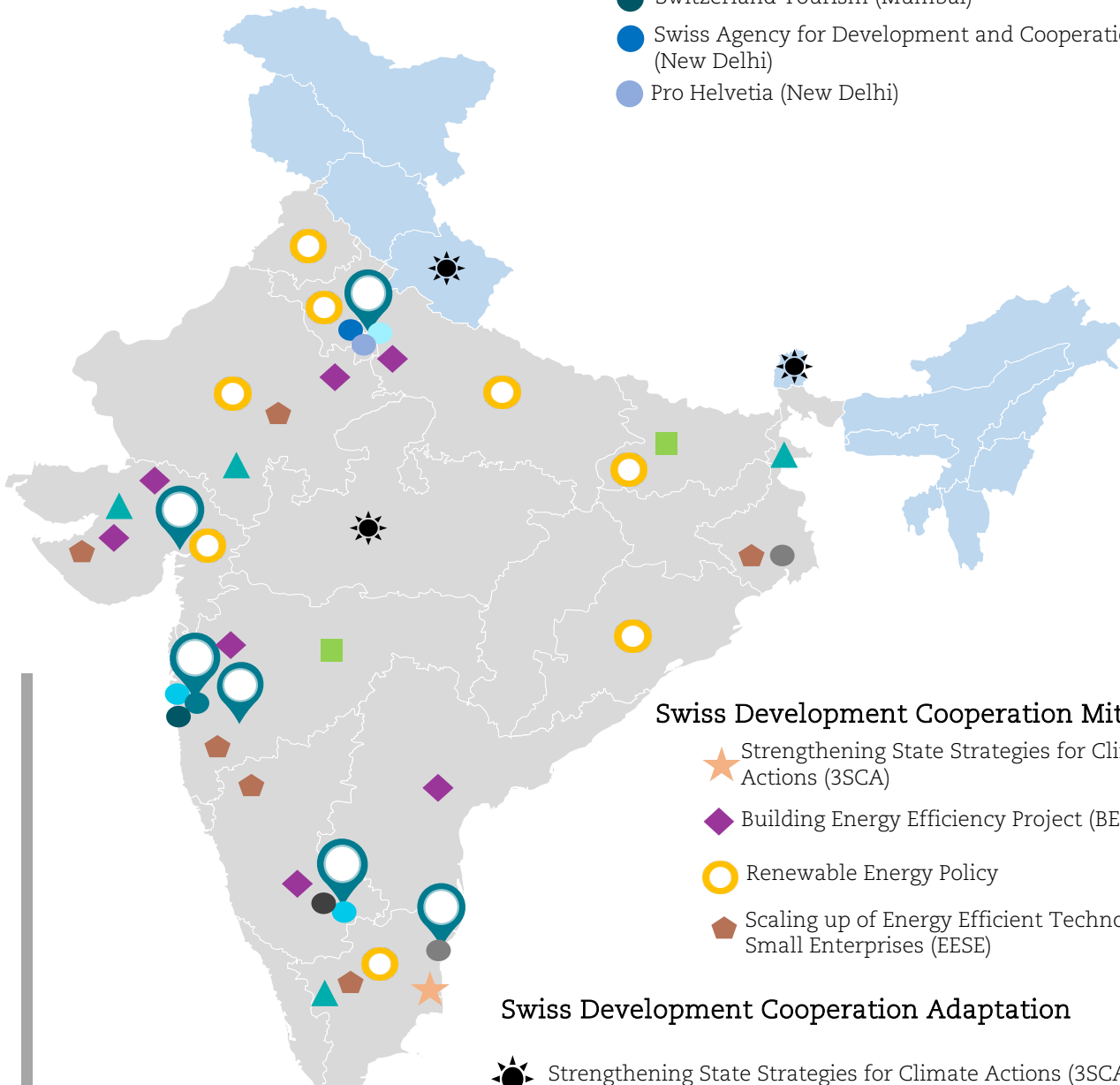
Swiss business presence in India (in order of investment density)

Mumbai-Pune corridor, Delhi-National Capital Region, Bengaluru-Chennai corridor, Gujarat



Official Swiss institutions in India

- Embassy of Switzerland (New Delhi)
- Consulates General (Mumbai and Bengaluru)
- Honorary Consulates (Chennai and Kolkata)
- Swiss Business Hub India (Mumbai)
- Swissnex India (Bengaluru)
- Switzerland Tourism (Mumbai)
- Swiss Agency for Development and Cooperation (New Delhi)
- Pro Helvetia (New Delhi)



Swiss Development Cooperation Mitigation

- Strengthening State Strategies for Climate Actions (3SCA)
- Building Energy Efficiency Project (BEEP)
- Renewable Energy Policy
- Scaling up of Energy Efficient Technologies in Small Enterprises (EESE)

Swiss Development Cooperation Adaptation

- Strengthening State Strategies for Climate Actions (3SCA)
- Climate Resilience through Risk Transfer (RES-RISK)
- Capacity Building for Low Carbon and Climate Resilient City Development in India (CapaCITIES)
- Indian Himalayas Climate Adaptation Programmes (IHCAP)

Swiss Development Cooperation is an integral department of the Embassy of Switzerland, New Delhi, with a mandate to mitigate climate change

Switzerland's Economic Footprint in India: Bilateral Relations

India is one of Switzerland's principal partners in Asia. The close and dynamic Indo-Swiss relationship is reflected in numerous treaties and agreements, as well as in frequent high-level visits.

In the autumn of 2019, the Indian President Ram Nath Kovind conducted a State visit to Switzerland. Former Federal Councilor and then President of the Swiss Federal Council, Doris Leuthard, came to India for a State visit in the summer of 2017. Her visit coincided with the launch of celebrations to commemorate the 70th anniversary of the Indo-Swiss Treaty of Friendship. Other high-level meetings at a Government level take place regularly. Federal Councilor Simonetta Sommaruga visited India in the autumn of 2019 and met with the Indian Ministers for Civil Aviation, Power and Railways. Federal Councilor Guy Parmelin and Minister for Commerce and Industry, Piyush Goyal, exchanged views on several topics related to economic affairs on the occasion of a videoconference at the end of 2020. In June 2021, Federal Councilor Ignazio Cassis exchanged views on foreign policy strategies and digitalization with his Indian counterpart, Minister of External Affairs, Subrahmanyam Jaishankar, in a virtual conference.

Various dialogue formats institutionalize the exchange at an operational level. They cover the fields of politics, migration and consular affairs, economic affairs, finance, tax issues, science and technology, as well as railways.

Swiss presence in India reflects the diversity of bilateral relations with India. Besides the Embassy in New Delhi, Switzerland maintains Consulates General in Mumbai and in Bengaluru. The Embassy in New Delhi steers bilateral relations and houses Switzerland's biggest visa section. Furthermore, the Swiss Agency for Development and Cooperation (SDC) is also part of the Embassy and focuses on mitigating the impact of climate change through science and research, actions on

the ground as well as policy dialogue. The Consulates General emphasize the strength of their host cities. Swissnex India, which encourages and facilitates collaborations in the fields of education, research and innovation, is part of the Consulate General in Bengaluru. Besides a general focus on economy and finance, the Consulate General in Mumbai is home to the Swiss Business Hub India, which is mandated with export and investment promotion activities, as well as being home to Switzerland Tourism, the official Swiss tourism promotion agency. And, last but not the least, the Swiss Government funded foundation Pro Helvetia has an office in New Delhi. Pro Helvetia promotes (and disseminates) Swiss arts and culture.

India has an Embassy in Bern and Consulates General in Geneva and Zurich.

The five states of Maharashtra, Karnataka, Haryana, Delhi and Tamil Nadu account for
~90%
of Swiss investment in India

Cluster focus
Mumbai-Pune corridor (45%) and Delhi-NCR (23%) together account for over
2/3rd
of Swiss companies in India

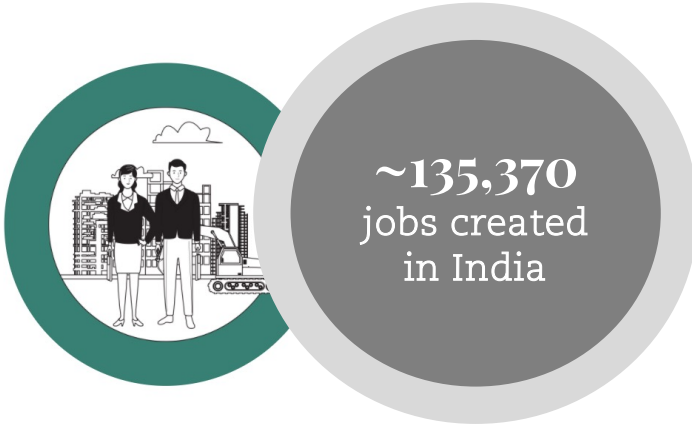
Swiss Business Presence in India

323 Swiss companies are present in India with a subsidiary, joint venture or liaison/representation office.

96% of these firms, i.e. 287, entered India post-liberalization in 1991

52 set up base between 2014 and 2019

Switzerland generates employment in India



Innovation

30
Swiss companies operate a Research & Development center in India (almost 9% of total Swiss companies in India)

India is an export hub for 2/3 of Swiss subsidiaries manufacturing in India

108 Swiss firms manufacture in India

68% of these companies export

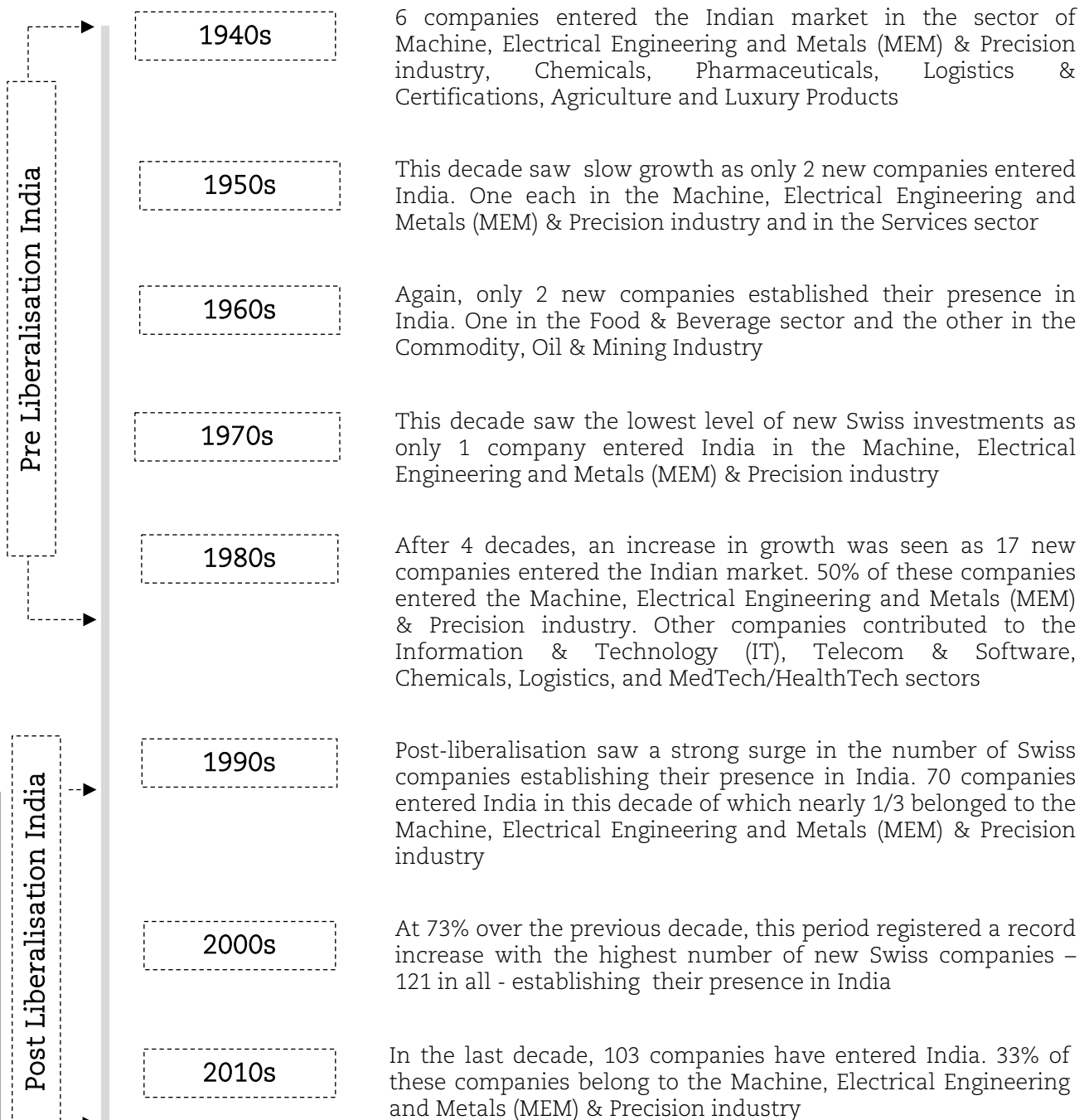
74 use India as a manufacturing and export hub for other markets

India in Switzerland



Historical Timeline of Swiss Investments in India

287 out of 316 Swiss companies entered the Indian market post-liberalization in 1991



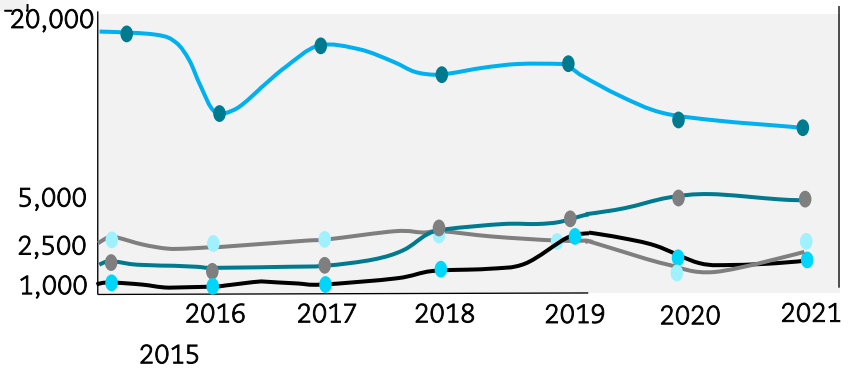
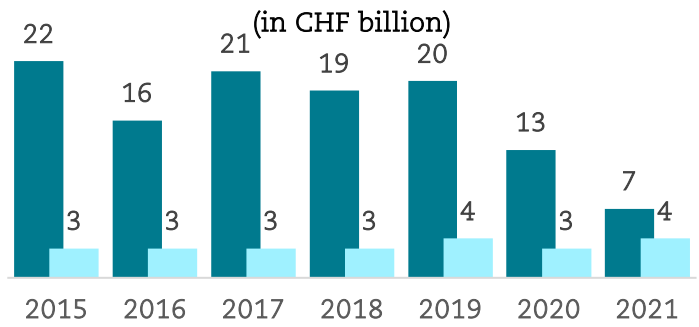
“ DID YOU KNOW? Ciba Pharma Pvt. Ltd. was registered on 13th December 1947 as a wholly owned subsidiary of Ciba Ltd., Basel, Switzerland. It took over the trading business in pharmaceuticals from the parent company's other Indian subsidiary, i.e. Ciba Dyes Pvt. Ltd., established in pre-independent India on 13th June 1928 - one of the earliest Swiss investments in India. ”

Switzerland and India: Bilateral Trade Relations

In 2021 to 2022, bilateral trade between Switzerland and India amounted to ~CHF 13 billion

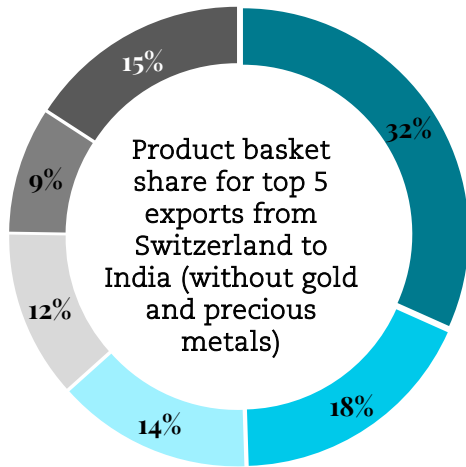
On an average, gold and other precious metals constitute **90%** of the bilateral trade between Switzerland and India

Bilateral Trade - Total Value

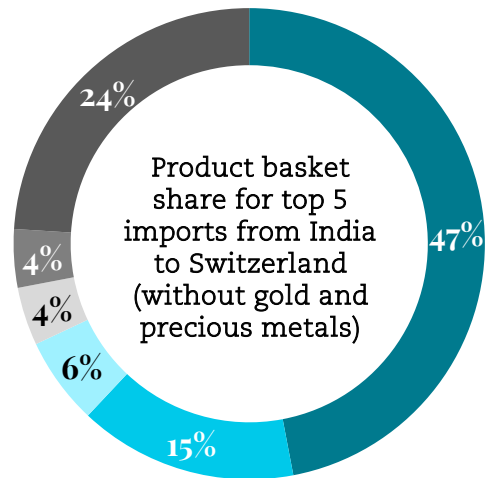


Swiss export-import trends - 2015 to 2021 (in CHF millions)

- Export with gold
- Export without gold
- Import with gold
- Import without gold



- Mechanical & Electrical Machinery
- Organic & Inorganic Chemicals, Dyes
- Pharmaceuticals
- Precision Equipment and Medical & Surgical Devices
- Clocks & Watches
- Others



- Organic & Inorganic Chemicals, Dyes
- Apparel, Clothing and Textile Articles
- Precious Metals & Stones, Jewellery
- Mechanical and Electrical Machinery
- Agricultural Products
- Others

IMPACT STORY:

MMTC-PAMP, a joint venture between the Government of India undertaking MMTC and Swiss group PAMP, is the first domestic innovator to develop gold bars and colorization of gold coins. Their high global standards of quality and responsible sourcing obtained them a national license from the Bureau of Indian Standards (BIS) and accreditation from the London Bullion Market Association (LBMA). Their facility is a zero-discharge unit and is responsible for installing and maintaining cost-effective water treatment plants for 17 schools and colleges in Nuh, Haryana.

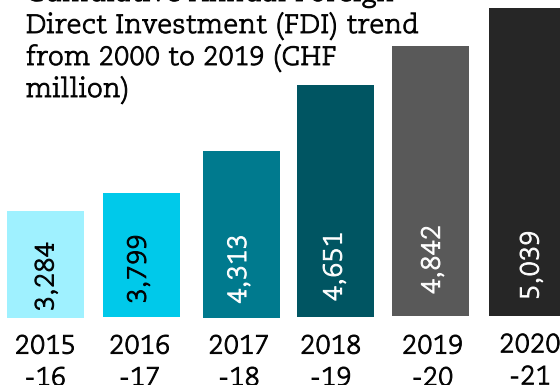
Swiss Investment and Job Creation in India

Foreign Direct Investment (FDI) from Switzerland in India increased by 53% between 2015 and 2020

CHF 197 million
Swiss investments in India in 2020

Between 2015 and 2020, Foreign Direct Investment (FDI) from Switzerland to India recorded an average annual growth rate of nearly **9%**

Cumulative Annual Foreign Direct Investment (FDI) trend from 2000 to 2019 (CHF million)



The impact of FDI can be seen in the employment generated by Swiss companies in India. The top 10 companies account for 55% of the employment generated by Swiss companies in India

74,472
Employed by the top 10 Swiss companies in India

Credit Suisse - a company operating in the Banking, Financial Services & Insurance sector - is the top Swiss employer in India with more than 13,000 employees

LafargeHolcim - a Construction and Building Material oriented company - with its subsidiaries ACC and Ambuja, employs 13,000 people

ABB is a leading global technology company that energizes the transformation of society and industry to achieve a more productive, sustainable future. It has created employment opportunities for ~7,000 people

Nestlé India, operating in the Food & Beverages industry, employs about 7,500 people with operations across the country

UBS Business Solutions Pvt Ltd, a company operating in the Banking, Financial Services & Insurance sector, is the fifth largest in terms of employment generated by Swiss companies in India - albeit in the Information & Technology sector - staff strength of 8,000

Machine, Electrical Engineering and Metals (MEM) & Precision industry

- ABB India Pvt Ltd: ~7,000
- TE Connectivity India Pvt Ltd: 1,432
- Rieter India Pvt Ltd: 1,114

Banking, Financial Services & Insurance sector

- Credit Suisse: 13,069
- UBS Business Solutions India Pvt Ltd: 8,000
- Swiss Reinsurance Company: 1,050

Construction

- Lafarge Holcim with its subsidiaries - ACC and Ambuja: 13,000
- Schindler India Pvt Ltd: 4,354

Information & Communications Technology & Software

- STM Microelectronics India Pvt Ltd: 3,300
- Temenos India Pvt Ltd: 3,123
- PIT Solutions India Pvt Ltd: 500

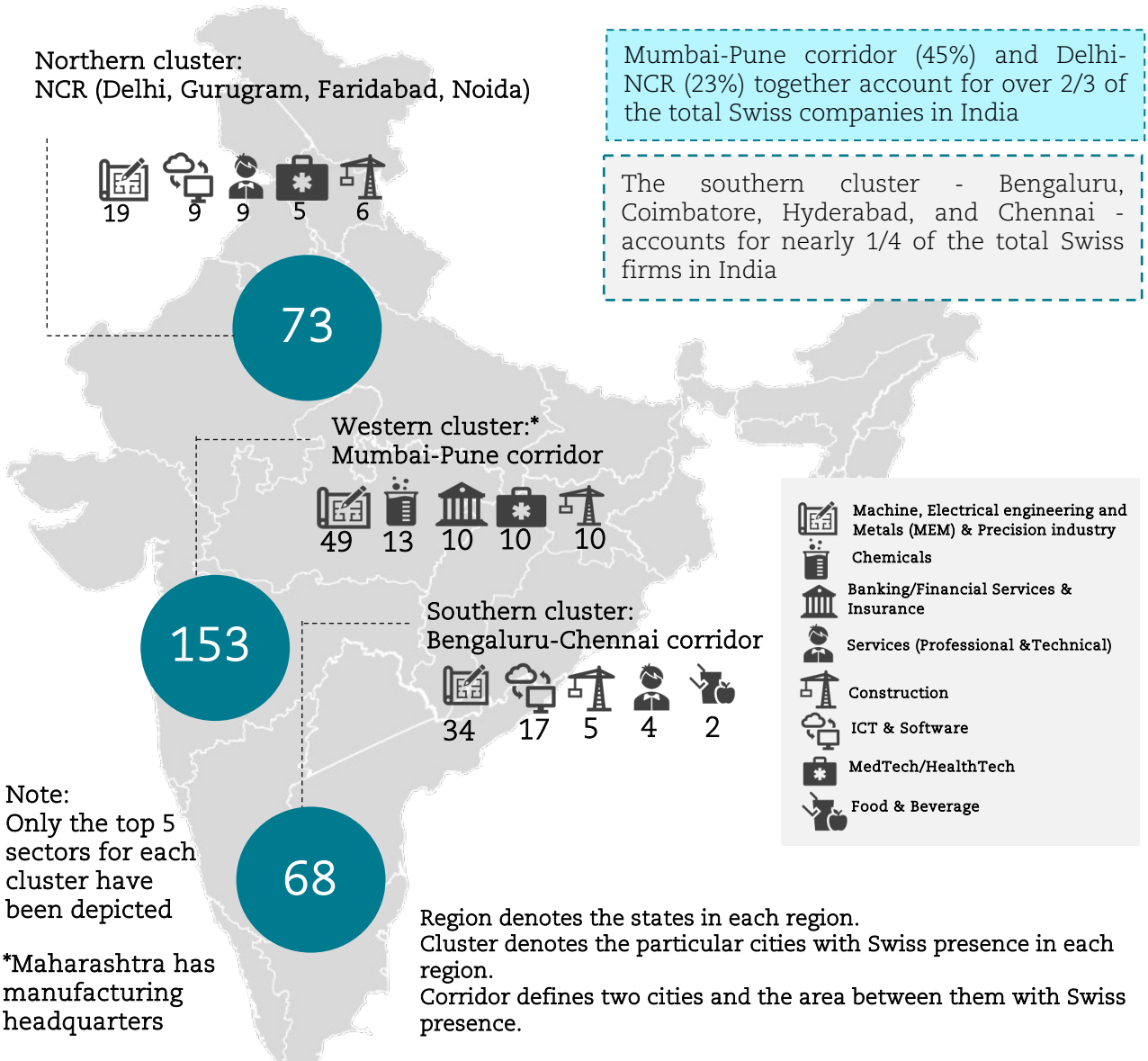
Services

- VFS Global Services Pvt Ltd: 2,657
- Evalueserve Pvt Ltd: 2,014
- Adecco India Pvt Ltd: 850

Leading employers in the top 5 sectors:

Swiss Companies in India: Geographical and Sectoral View

Over 91% of the Swiss companies present in India are located in three geographical clusters, i.e. the northern cluster of Delhi-NCR, the western cluster of the Mumbai-Pune corridor, and the southern cluster of the Bengaluru-Chennai corridor



IMPACT STORY:
Bühler India's subsidiary has a 600-staff strong, export-oriented food processing equipment manufacturing facility. The company is equipped with an in-house research & development team, analytical lab, an academy, and an advanced materials lab. 800 new product tests have been conducted at the Bengaluru application center.

IMPACT STORY:
ABB in India, with ~7,000 employees and 30 factories, supports ABB's global operations and contributes to the development of core technology and digital solutions. ABB's Global Research Centre in Bengaluru has conceptualized and developed innovative products such as solar pumps catering to rural areas in India and smart sensors to connect low-voltage motors to Industrial IoT.

51%

of Swiss companies in India are based in the western region.

Maharashtra alone accounts for 94% of the companies in the western region.

45%

of the companies in the Machine, Electrical Engineering and Metals (MEM) & Precision industry

Bengaluru is the second preferred location for Machine, Electrical Engineering and Metals (MEM) & Precision industry accounting for

23%

of the total Swiss companies in this sector in India

The southern region has

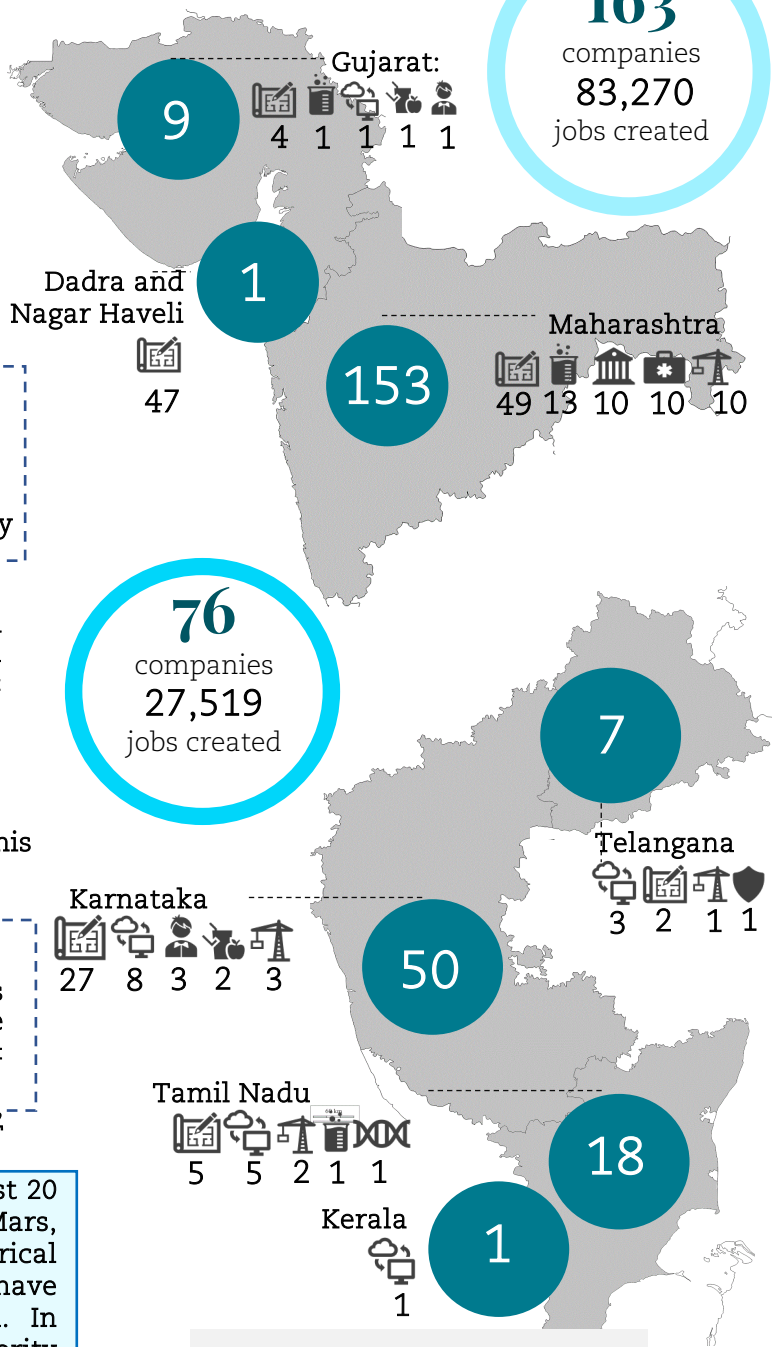
51%

of the companies operating in the Information & Communications Technology sector, making it the Swiss IT hub in India

“

DID YOU KNOW? In the past 20 years of research on planet Mars, precision drives by Swiss electrical motors manufacturer, Maxon, have made an important contribution. In missions by the US space authority NASA, Maxon products reached the surface of Mars. Beginning with Sojourner, which landed on July 4, 1997, this partnership continues to date. Maxon is also involved in ExoMars, the European Space Agency's Mars mission in cooperation with the Russian agency Roscosmos. Maxon India is also working actively with Indian Space Research Organization (ISRO), Hindustan Aeronautics Ltd. (HAL), Defense Research & Development Laboratory (DRDL), Bharat Dynamics Ltd. (BDL), to name a few.

”



163 companies
83,270 jobs created

76 companies
27,519 jobs created

- Machine, Electrical Engineering and Metals (MEM) & Precision industry
- Chemicals
- Banking/Financial Services & Insurance
- Services (Professional & Technical)
- Construction
- ICT & Software
- MedTech/HealthTech
- Food & Beverages
- Defence & Aerospace
- Biotech

Note: Only the top 5 sectors for each cluster have been depicted

The millennium cities of Gurugram and Bengaluru have attracted the highest levels of investment with the number of companies doubling in the last five years, reflecting India's growth story

27% of Swiss Information & Communications Technology companies are based in Delhi-NCR

30% of Swiss companies in the northern cluster operate in the Machine, Electrical Engineering and Metals (MEM) & Precision industry

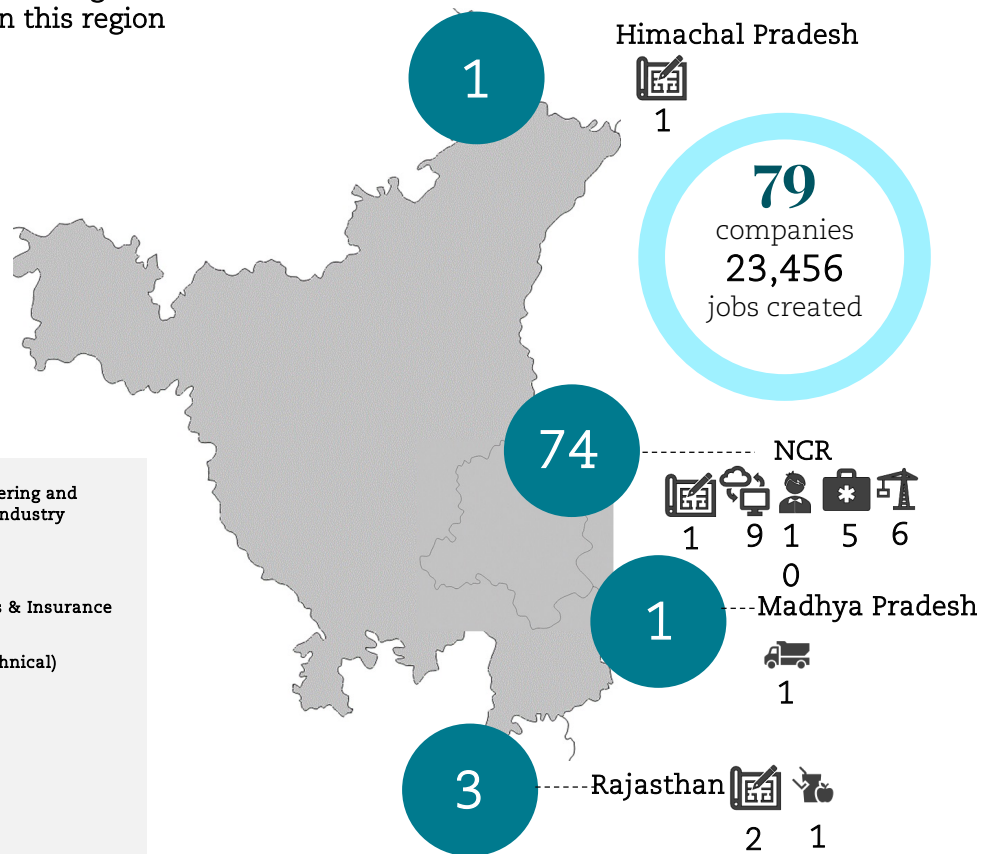
Delhi-NCR stands as the second preferred region for the BFSI sector with

27% of Banking, Financial Services & Insurance companies having their operations in this region

40% of Swiss technical and professional services firms are in Delhi-NCR

Note:
Only the top 5 sectors for each cluster have been depicted

-  Machine, Electrical engineering and Metals (MEM) & Precision industry
-  Chemicals
-  Banking, Financial Services & Insurance
-  Services (Professional & Technical)
-  Construction
-  ICT & Software
-  MedTech/HealthTech
-  Food & Beverage
-  Logistics



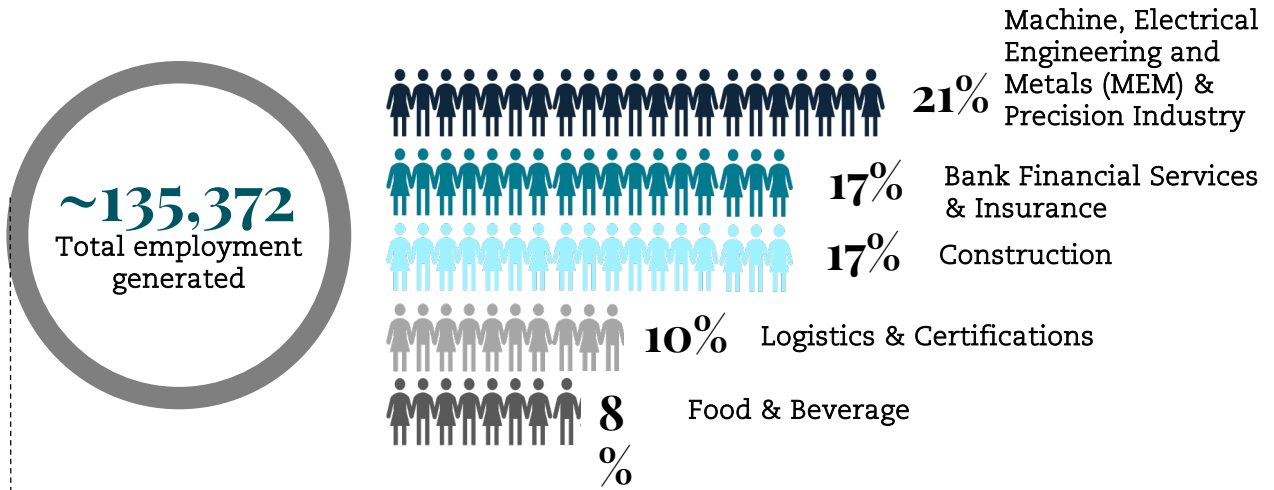
IMPACT STORY:

Geobrugg India is the pioneer in the supply and installation of the very first ETA (European Technical Approval) sanctioned rockfall barrier in India.

The company has installed rockfall and slope protection systems at 15 locations on the trek to Vaishno Devi and is currently involved in constructing India's first green tunnel.

Employment Generated by Swiss Subsidiaries in India

Maharashtra, Karnataka, Delhi, Haryana, and Tamil Nadu together account for 90% of the jobs created by Swiss entities in India



Swiss firms headquartered in the Mumbai region account for nearly **55%** of the staff employed by all Swiss firms in India

84% of the workforce employed by the Swiss Machine, Electrical Engineering and Metals (MEM) & Precision industry is concentrated in the Mumbai-region, Bengaluru and Delhi-NCR

Sales, marketing and distribution segments accounts for only **7%** of the total Swiss jobs created in India

50%
of the total employee strength of Swiss firms is involved in manufacturing

“ DID YOU KNOW? Indian machine tools manufacturer Hindustan Machine Tools (HMT) was officially established in 1953 to “manufacture mother machines to build modern industrial India” as the Government of India envisioned it.

But, collaboration on high precision center lathes had started with Oerlikon-Bührle, Switzerland, as early as 1946.

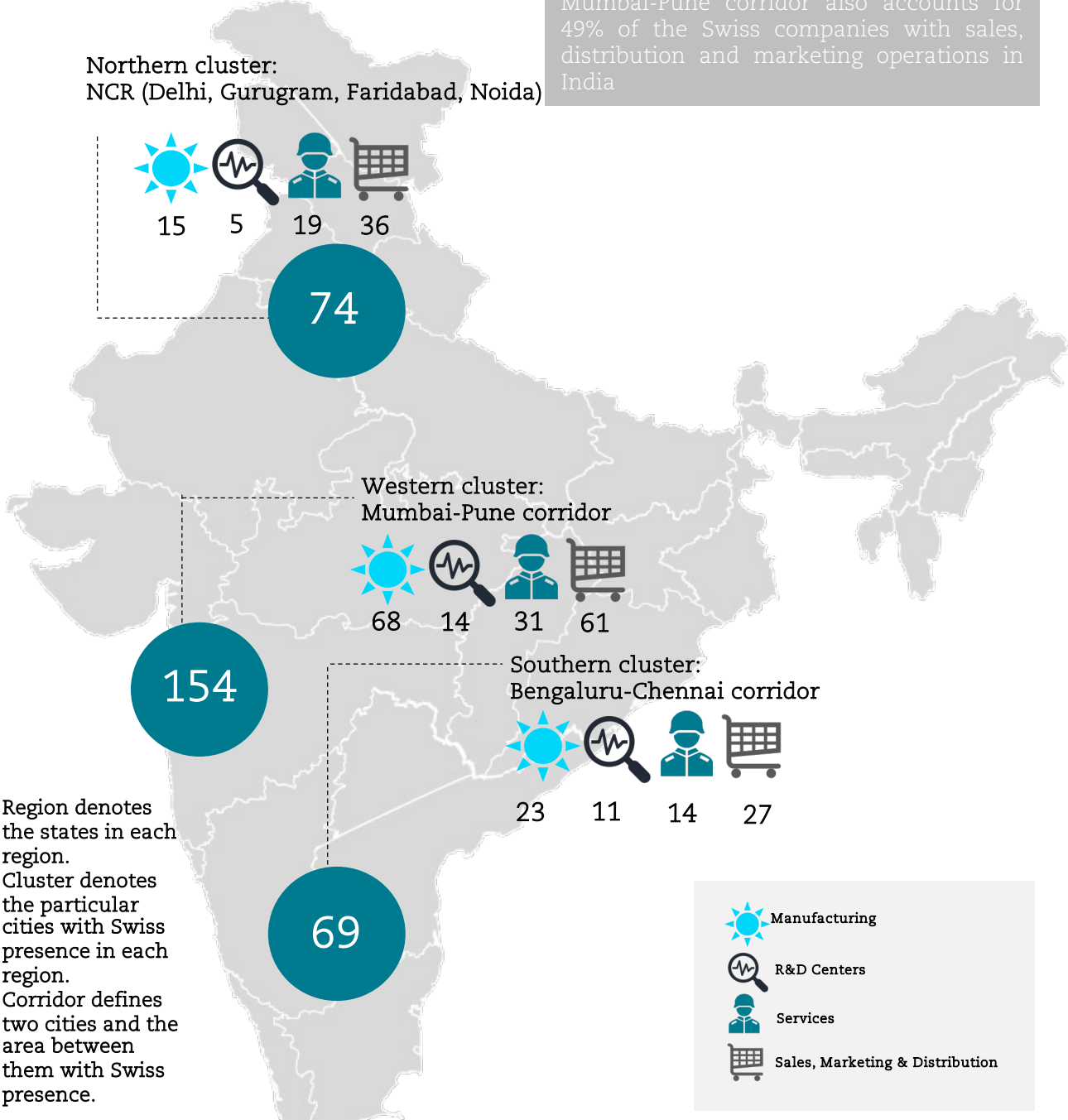
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Swiss Investments in India: A functional view

The western region, i.e. Gujarat and Maharashtra, is the Swiss manufacturing hub in India hosting 63% of the companies

Mumbai-Pune corridor accounts for 57% of the companies manufacturing in India

Mumbai-Pune corridor also accounts for 49% of the Swiss companies with sales, distribution and marketing operations in India



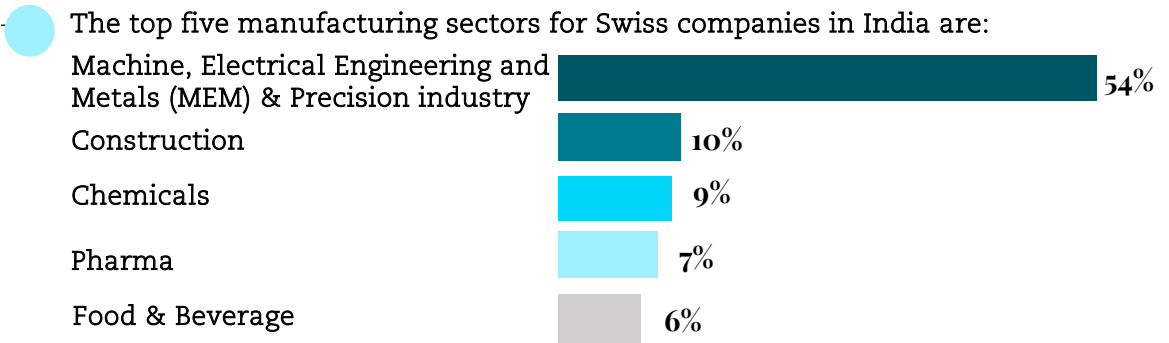
Region denotes the states in each region.
 Cluster denotes the particular cities with Swiss presence in each region.
 Corridor defines two cities and the area between them with Swiss presence.

- Manufacturing
- R&D Centers
- Services
- Sales, Marketing & Distribution

IMPACT STORY:
 Habasit AG is the leading manufacturer of synthetic sandwich spindle tapes, power transmission, conveyor and modular belts. Habasit India is the largest supplier of synthetic sandwiched spindle tapes catering to global textile machinery applications. It employs 225 people in its production, sales & services teams. Habasit India caters to the distribution of the entire Habasit product portfolio in South Asia.

Manufacturing in India

108 of 323 companies have production facilities in India

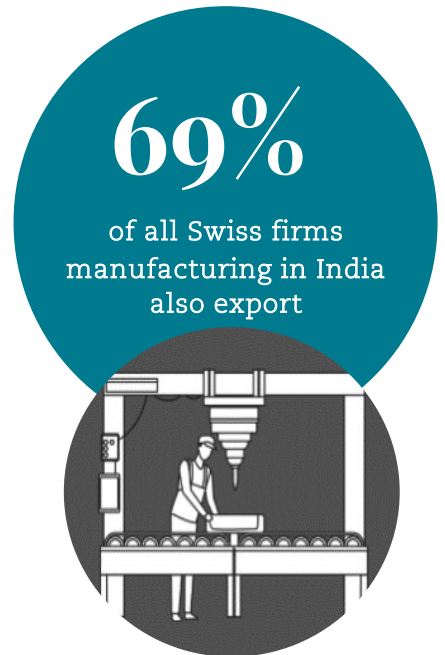


- 61%** of the Machine, Electrical Engineering and Metals (MEM) & Precision industry is involved in the following segments
- Packaging Machinery
 - Assembly & Factory Automation Tools
 - Machine Tools
 - Manufacturing Technology
 - Hand Tools & Precision Tools
 - Die & Mold Machinery
 - Welding Technology
 - Process Engineering Equipment & Pump Technology
 - Textile Machinery
 - Automotive

The Mumbai-Pune corridor and Bengaluru are the production hubs of India as they host

70%
of the companies manufacturing in India

All companies involved in Pharmaceuticals, Commodity, Mining And Oil, and MedTech/HealthTech sectors export from India



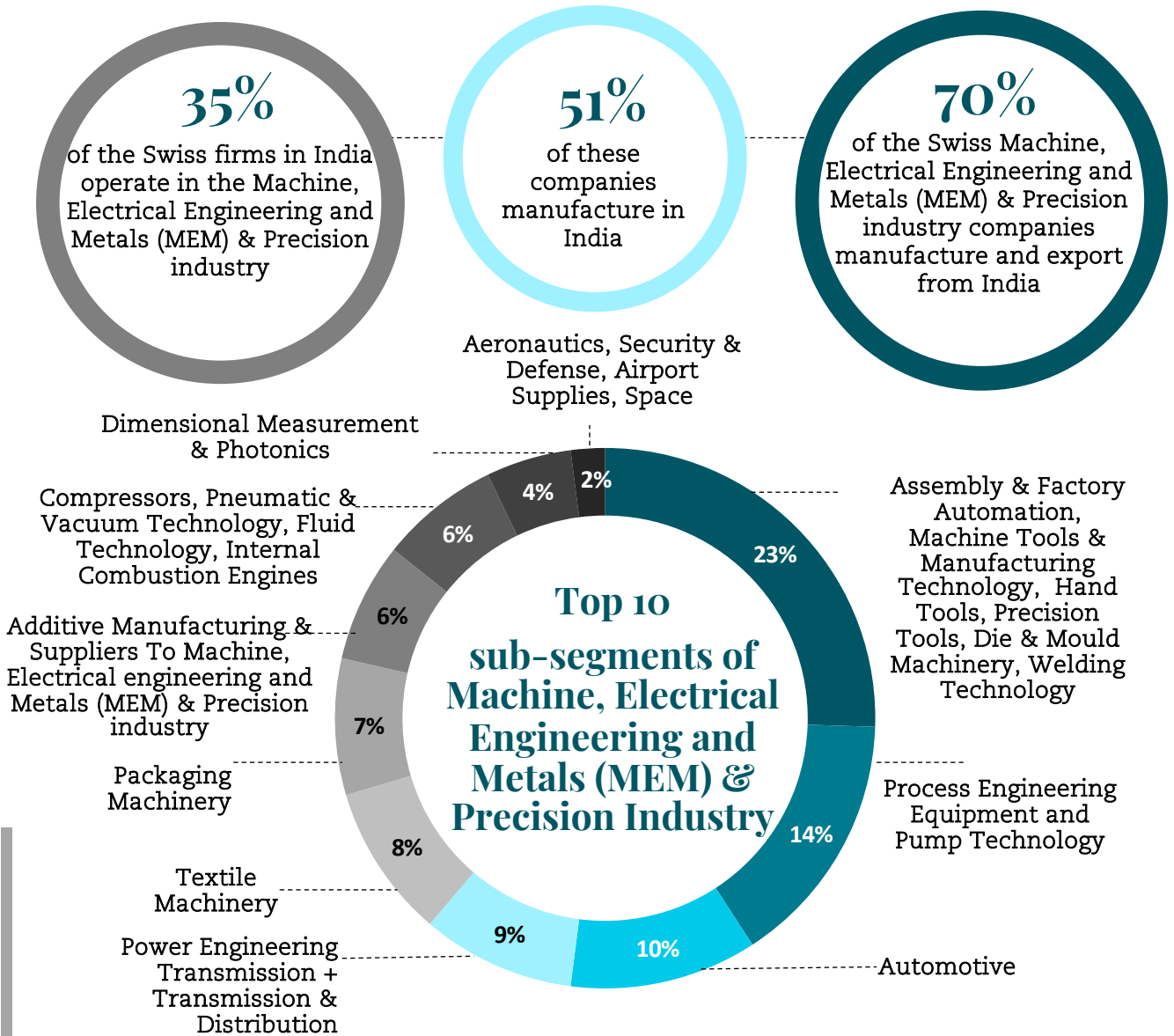
DID YOU KNOW? Swiss kitchen and restaurant equipment manufacturer Franke is a leading supplier to fast food chain McDonalds.

Starting with the early European McDonald's in 1972 the two have had a special relationship for nearly 5 decades. Franke also supplies to other chains such as Vapiano, YUM, and Burger King, besides helping Lindt make its premium chocolate bars. Franke has a manufacturing set-up in Pune.



Swiss Machine, Electrical Engineering and Metals (MEM) & Precision industry in India

114 out of 323 Swiss companies operate in the Machine Electrical Engineering and Metals & Precision industry



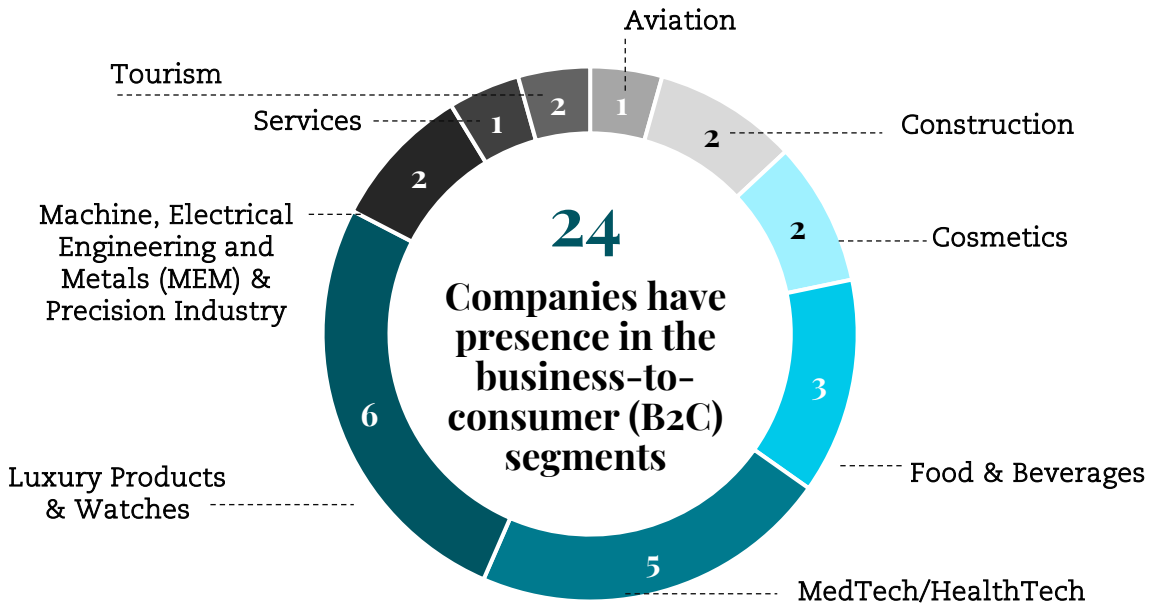
51 Out of 114 (45%) Machine, Electrical Engineering and Metals (MEM) & Precision Industry companies are located in the Mumbai-Pune corridor

32 Out of 114 (28%) Machine, Electrical Engineering and Metals (MEM) & Precision Industry companies are in the Bengaluru-Chennai corridor

IMPACT STORY:
 India houses the largest manufacturing facility of Burckhardt Compression AG - gas compression solution provider - outside Switzerland. The group made its first ever supply to Canada through products designed and manufactured in India.
 The company has a global support centre in India with a local design team.

Swiss Companies with Sales, Marketing & Distribution in India

299 out of 323 companies operate in the business-to-business (B2B) segment of sales, marketing & distribution



93%

of the companies operate in the B2B segment.

Sectors that have

100% B2B functioning are:

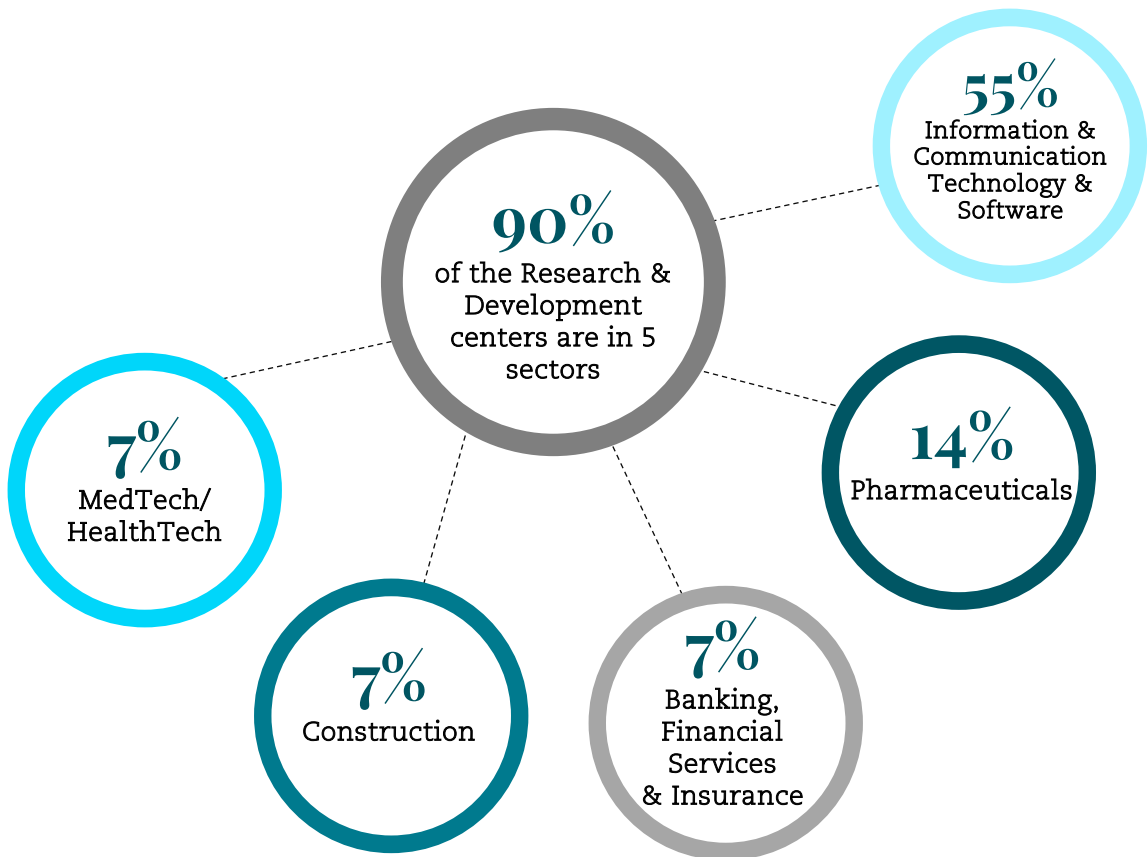
Banking, Financial Services & Insurance, Logistics and Certification, Pharmaceuticals, Information & Communication Technology, Software, Chemicals, Agriculture, Commodity, Mining & Oil, Automotive, Cleantech, Tobacco, Real Estate, Textile, Arts & Entertainment, Architecture & Design, Biotech, and Defense & Aeronautics

IMPACT STORY:

Hilti – Liechtenstein’s biggest company - in India employs more than 1,500 highly trained team members in sales, marketing, engineering, manufacturing and software development. The company is planning to make more investments in India by improving their manufacturing and Internet of Things (IoT) based solution capabilities. Hilti India has been actively working in improving fire and seismic safety of building structures, has worked on many reputed projects like Delhi & Mumbai metro systems and airports and has authored books on Fire Safety and Fastening Solutions for construction professionals in India.

Research & Development Centers in India

30 companies have Research & Development centers in India.



5 out of 29 Research & Development centers are located in the northern cluster, i.e. Delhi-NCR region accounting for

17% of such establishments in India

Mumbai-Pune corridor hosts 13 Research & Development centers accounting for

nearly **45%** of the total Research & Development centers in India

“

DID YOU KNOW? Jawaharlal Nehru, India's first Prime Minister, inaugurated Ciba's Research Center - the very first in India - in Goregaon, then Bombay, in 1963.

”

36%

of the Information & Communications Technology and Software Research & Development centers are located in Bengaluru, Chennai, and Hyderabad. The southern cluster is known as the Research & Development hub of the Swiss Information & Communications Technology industry

Switzerland as a Key Partner in Innovation

DIGITAL TRANSFORMATION AND INDUSTRY 4.0

India's quest for industrial automation and digitalization has found a suitable ally in Swiss firms, which have contributed to the 'Digital India Vision' and created a technology infrastructure in the country.

UBS Group's India technology team, designs and manages innovative systems for clients around the world.

WISeKey is creating an IoT platform to connect 140 million farmers and create 100 million digital identities.

Swiss Re India is one of the 5 global technology innovation centers of the Swiss Re group.

Landis+Gyr has supplied over 5 million smart digital meters to help cut power losses and ease tracking.

IMPACT STORY:

Migros India serves as the Indian subcontinent procurement office for the Migros Group, one of the biggest retailers in Switzerland.

For schools in South India - Migros, together with KIDS Society in Cologne, Germany, has been funding schools and community services in South India since 1997.

Its commitment to the MIGROS-KIDS School, via its "Fund for specific help", means that Migros is making a vital contribution to improving living conditions for children and young people in South India. Regular local textile suppliers support the project.

AGRICULTURE

Solutions and technology provided by Swiss subsidiaries have helped the Indian agriculture sector in creating smooth access to modern machinery.

Nestlé: In partnership with the Sustainable Agriculture Network, Nestlé initiated a Responsible Sourcing Program (RSP) - with a focus on chili, coriander, turmeric and cumin - to strengthen consumers trust by displaying the source of ingredients and how they are made. Nestlé works on the RSP in Rajasthan, Andhra Pradesh, Telangana and Karnataka.

Reitzel: First producer of Fairtrade certified gherkins in India. Helped farmers procure new machinery, which resulted in earnings of over CHF 100,000 in premiums for farmers in two years.

Migros Group: Sustainability and self-reliance supported by directly procuring rice from small-scale Indian farmers.

Rufil (RUJ Group): Milk processor using Swiss technology to ensure better quality of products. Provides jobs to more than 200 farmers and engages a network of retailers.

Innoterra is a Swiss-Indian food and technology platform company operating in 14 countries. Innoterra's food business works closely with farmer communities in multiple sourcing regions. The company's completely integrated supply chains ensure the highest levels of process efficiency and consistent high quality of its branded food products. Innoterra's core products are fully traceable to their roots for customers and consumers.

Swiss Impact on the Indian Start-up Ecosystem

500

Swiss start-ups supported for market entry and validation in India by Swissnex

Presently, about 50 Swiss firms qualify as start-ups in India. Most of these firms operate in Cyber Security, HealthTech, Material Science Technologies, Clean-tech, Biotech as well as Information

and Communications Technology and Software. Swiss start-ups have offered innovative products and services, business models, and capital to scale up their businesses in India.

The key reasons for Swiss start-ups to engage with India are the country's large markets with top multinationals working with start-ups, along with arguably one of the best talent markets in DeepTech.

Swissnex is the official Swiss institution for encouraging and facilitating collaborations in the field of education, research, and innovation. Swissnex's support includes context building of the market, advice on product and service localization, pricing, and legal issues.

Credit Suisse to invest

CHF 97 million

in the Indian start-up ecosystem

EST Group plans to invest

CHF 250 million

in Indian Fintech start-ups

ABB's Venture Capital arm, ABB Technology Ventures (ATV), commenced operations in India in 2017 and invested in Stellapps in 2018. In 2019, ATV did pilots with seven start-ups. Furthermore, the company has deepened ecosystem partnerships in India to highlight and enhance ABB's capabilities.

Swiss Re launched and ran the 'InsurTech' accelerator Program in 2016 and 2017, to help start-ups develop business solutions for the reinsurance sector. It fostered technology innovation amongst start-ups in IoT, systems of engagement and smart analytics.

In 2019, Pioneering Ventures, an agri-food venture capital firm and incubator, launched a CHF 68 million private equity fund, Rural India Impact Fund, to help Indian companies in end-to-end supply chain management and export of farm produce.

Swiss agritech start-up, Gamaya, has provided support to Mahindra & Mahindra's farm equipment business by developing technology solutions.



DID YOU KNOW? UBS Business Service Centers - providing financial services - in India are central to UBS's digital development and the bank has nearly 8,000 employees in the country.

The technology team, half of UBS's workforce in India, set up a futurity lab for innovative solutions and products.

UBS provides high-tech learning platforms which serve underprivileged students as part of their CSR.



Swiss Contribution to Skill Development in India

Swiss investments in India have not only created economic opportunities but also fostered skill development for the increasing Indian worker population.

The Swiss Vocational Education and Training (VET) ecosystem has spread beyond borders to partner with India in training its large pool of human resources.

A Memorandum of Understanding signed between Switzerland and India in 2016 underlined cooperation in the areas of skill development and vocational training.

Swiss State Secretariat for Education Research and Innovation (SERI) and private companies, along with various associations, have contributed to establishing Swiss-based VET training programs tailored to meet the needs of Swiss companies in India.

All hands-on, skill-based training by apprentices is undertaken at the Swiss companies premises itself.

Schindler India Skill Development Ecosystem

Schindler India's 4 training centres compliment the Schindler University in India instituted in 2017.

The Schindler India skill development ecosystem includes 50 full-time trainers. 27 batches of the Apprentice Program have been completed till date benefitting 607 technicians in 2019 compared with 477 and 588 in 2017 and 2018 respectively.

Trainees are absorbed as full-time employees in Schindler India following the completion of the course which provides expedited career progression opportunities for trainees to reach the Team Leader level.

Geberit Plumbing Technology India

Geberit established a plumbing lab at Pune University. Furthermore, the firm is working with the Indian Plumbing Association to create learning programs

The Geberit technical faculty trains ~5,000 plumbers at its lab annually

Geberit has successfully installed one million 'Made in India' concealed cisterns across residential and commercial properties in India

Bühler Academy

40 graduates have been trained under the Swiss VET program offered to Bühler employees and customers.

Rieter India's Apprentice Programme



The Multi-Skilled Production Technician (MSTP) program by Rieter, trains staff on work processes and organizational culture to maintain consistent quality and build a talent pipeline.

Note: These are examples of Swiss contributions in the area of skill development in India. The section does not represent a comprehensive overview

DID YOU KNOW? Swiss vocational training in India started in 1964. Both, the Indo-Swiss Training Centre, Chandigarh, and the Hebbich Technical Training Institute, Mangaluru, were started with the assistance of the Swiss Foundation for Technical Assistance and the Basel Mission, respectively.

Swiss Projects in Regional and Sectoral Development

GENOME VALLEY

Genome Valley, Hyderabad, is India's first and largest cluster for environmentally friendly manufacturing and R&D. The cluster houses more than 200 companies where over 50 global majors have their R&D and manufacturing facilities. The cluster has a significant presence of leading Swiss companies including Novartis, Lonza, and Ferring.

These major Swiss companies have added significantly to the development of the cluster.

Novartis Global Drug Development Centre - the global hub for its in-house method validation study - employs 350 people

Sandoz Development Center for the Pharmacokinetic/ Pharmacodynamic Clinical Development Study currently employs 24 people

Ferring Pharma has a delivery center focusing on therapeutics for women's health. Currently, Phase 1 of construction is under process out of total three phases. The proposed investment is CHF 250 million with a potential to employ ~200 people.

Lonza India has a small-scale multi-purpose manufacturing plant for biopharmaceuticals, biotherapeutic media manufacturing plant, lab for biologics and bioinformatics. The project has generated 55 jobs.

INDIAN RAILWAYS

The involvement of Swiss companies in collaborating with Indian Railways is a testament of Swiss projects' contribution in regional development in India.

The Udhampur-Srinagar-Baramulla Rail Link (USBRL) is the biggest in mountain railways construction project since Indian independence. Amberg India has been involved in the detailed designing for the construction of 345 km of new rail line, construction supervision and 3D monitoring of the tunnels.

Geobrugg India, another Swiss company well known for its tunneling technology, has supervised the development of the ongoing construction of the Chenani-Nashri tunnel in Jammu & Kashmir (J&K).

Lombardi Engineering is responsible for executive design and work supervision of a 16 km long section of the Rishikesh - Karanprayag railway in the state of Uttarakhand.

It is also responsible for design, 3D monitoring, and construction supervision of a 10 km long tunnel of the Udhampur-Srinagar-Baramulla Rail Link (USBRL).

Fässler Engineering is responsible for the construction of the Chenab bridge, a railway steel arch bridge between Bakhal and Kauri in the Reasi district of J&K. The bridge, once constructed, will be the world's highest rail bridge: at a height of 359 m above the Chenab river.

DID YOU KNOW? In 1949 - just after India signed her first Treaty of Friendship with Switzerland - the Indian Government and the Swiss Cars & Elevators Manufacturing Co. Ltd., Schlieren-Zurich, signed an agreement to set up a railway coach factory. Work began in 1950 on the Integral Coach factory (ICF) at Perambur, Tamil Nadu, one of the earliest railway manufacturing units under independent India. The ICF was inaugurated by Prime Minister Jawaharlal Nehru in 1955.

Role of Switzerland in Strengthening Healthcare in India

Opportunities in investing in Indian healthcare lie in research and development and manufacturing of complex generics and biosimilars. Swiss multinational firms such as Novartis, Roche, and others in India concentrate on the research and development of new medicines.

Switzerland has emerged as a key contributor to pharmaceutical research and medical technologies in India.

The Novartis subsidiary, Sandoz, is collaborating with Biocon to develop biosimilars for applications in immunology and oncology. In the MedTech space, Smart Cardia has introduced a wearable cloud-based monitoring solution that notifies dangers in a heartbeat - like arrhythmia for cardiac disease.

SDC, the Swiss Agency for Development and Cooperation supports government agencies in Telangana and Karnataka to combat antimicrobial resistance through the Reducing AMR Through Sustainable Antibiotic Manufacturing (RATSAM) initiative.

Nestlé India ranked first in India's Access to Nutrition Spotlight Index 2020 for meeting health and nutrition needs of consumers.



DID YOU KNOW? Swiss Emmaus Leprosy Relief Work India (SEI) started operations in India in 1960. For the last 60 years, SEI has dedicated itself to improving the lives of people affected by leprosy and other poverty related diseases through social and medical rehabilitation.

SEI has its presence in 4 states namely Andhra Pradesh, Karnataka, Tamil Nadu and Maharashtra supporting 5 tertiary care hospitals (3 in Andhra Pradesh, 1 each in Tamil Nadu and Karnataka respectively) which are recognized by the Central Leprosy Division, Government of India.



Roche Diagnostics invested **CHF 20 million** in its India R&D center to develop novel technologies for labs and new solutions for communicable diseases.

During the pandemic of 2020, the Indian Council for Medical Research (ICMR) along with Roche Diagnostics India, attempted a public-private partnership to make available Roche COVID-19 antibody tests across National Accreditation Board for Testing and Calibration Laboratories (NABL) approved and government sites in India.

The lab-based antibody test runs on fully automated Chemiluminescence Immunoassay (CLIA) analyzers with estimated peak testing capacity of 0.5 million tests a day.

Novartis' development teams in India focus on developing/designing clinical trials for new novel drugs and global health diseases impacting the country and the world.

The company partnered with the National Health Authority of India through a memorandum of understanding in November 2019 to strengthen the awareness about Ayushman Bharat PM-JAY (the country's community health insurance scheme) to help improve not only health-seeking behavior but also increasing enrollments for the said program from the rural communities. More than 800,000 people have been reached so far.

Lonza India, with a focus on biosimilars R&D, caters to research institutes including IITs and the National Institute of Immunology.

Swiss Contribution to Corporate Social Responsibility (CSR) in India: Gender Equality and Women Empowerment

CSR activities of Swiss companies in India aim to generate livelihood, provide access to electricity, and make available affordable healthcare and drinking water. They are specifically committed to achieving the UN SDG #5 standard, i.e., gender equality and women empowerment. Some examples are listed below:

Impacting the lives of children:

Nestlé has set up 550 sanitation facilities in government schools which benefit over 182,000 girl students across 14 states.

Community needs and fair labor practice:

Syngenta's Sparsh project focuses on prioritized community needs and works with local women members under Self Help Groups (SHG). Each group of 10 to 20 women is provided with training on livelihood skills such as flower making, painting, cooking, and beautician courses, based on their interests. In a span of 3 years, over 2,000 women are now part of these SHGs.

Syngenta's Me & Mine project focuses on women workers by educating them on fair labor practices using lady mobilizers in different locations to reach out to female workers at the farm level.



Providing hygiene facility for girl students:

Endress+Hauser has installed three sanitary pad vending and disposal machines, impacting 300 girl students of a Zila Parishad run school in Aurangabad, Maharashtra.

Empowering tribal women

Project Roshni by Roche Diagnostics India has empowered around 650 women with Aadhar cards, permanent account number (PAN) cards, bank accounts, and financial literacy in the tribal villages of Palghar, Maharashtra. Furthermore, education of 500 women in rainwater harvesting has touched over 3,000 families.

“ DID YOU KNOW? Endress+Hauser India - process and laboratory instrumentation and automation supplier - employs 250 people at its manufacturing plant in Aurangabad and has served about 50 million Indians through its technology.

The company leverages the Indian manufacturing ecosystem to export equipment worth nearly CHF 100 million.

The company contributed to Mission Bhagiratha - a project for providing safe drinking water for every household in the State of Telangana.

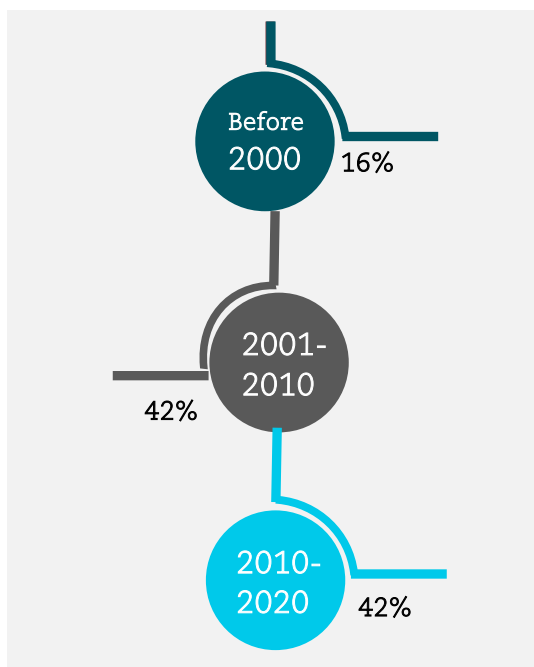
India in Switzerland

140 Indian companies have a Swiss presence.

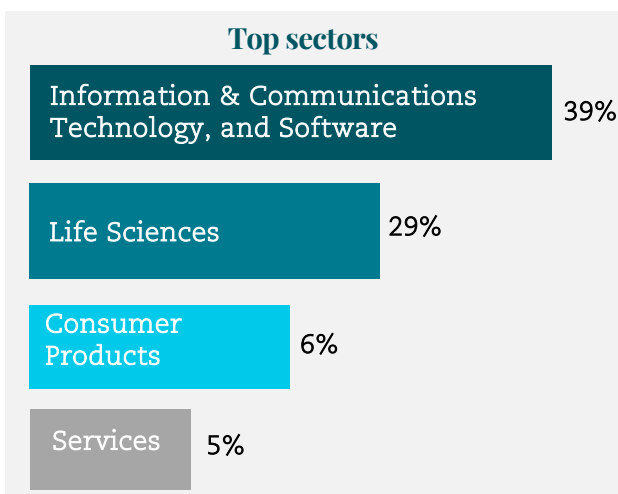
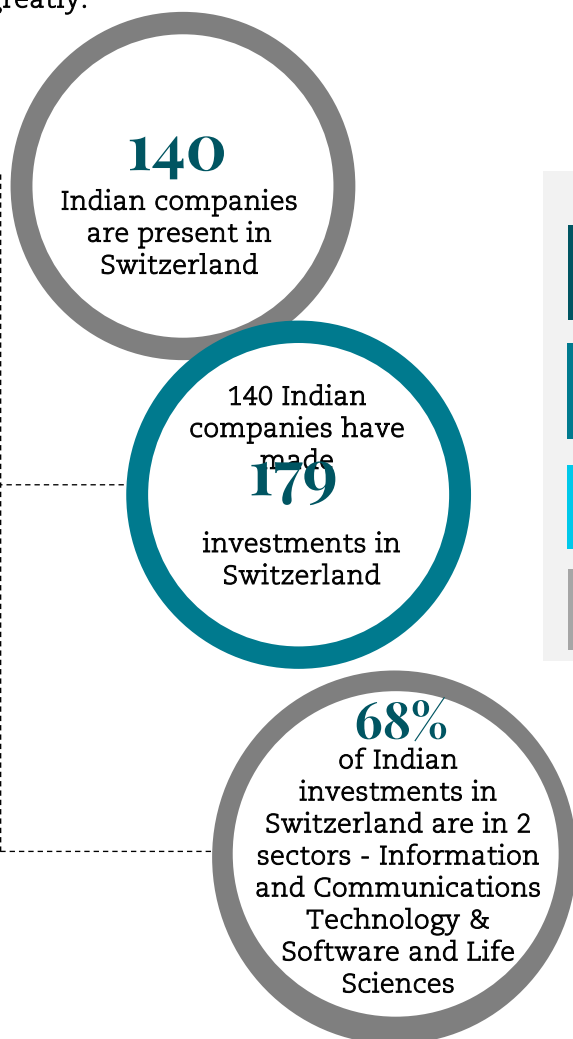
With a strong Deeptech ecosystem, cutting-edge innovation, strong intellectual property rights mechanisms, highly skilled talent and funding along with incubation support, Switzerland is well-positioned as an attractive investment destination for Indian companies.

In the early 2000s, the Reserve Bank of India (RBI) liberalized overseas investment norms, in a bid to give further impetus to overseas investments by Indian companies. During this period, India saw an uptrend in outbound investments and a majority of the Indian companies which invested overseas incorporated Swiss entities post this policy liberalization.

Key message from these trends is that liberalized policy decisions matter greatly.



The Information & Communications Technology (ICT) and Software sector remains at the forefront of Indian interests in Switzerland, followed by Life Sciences and Engineering and Manufacturing.

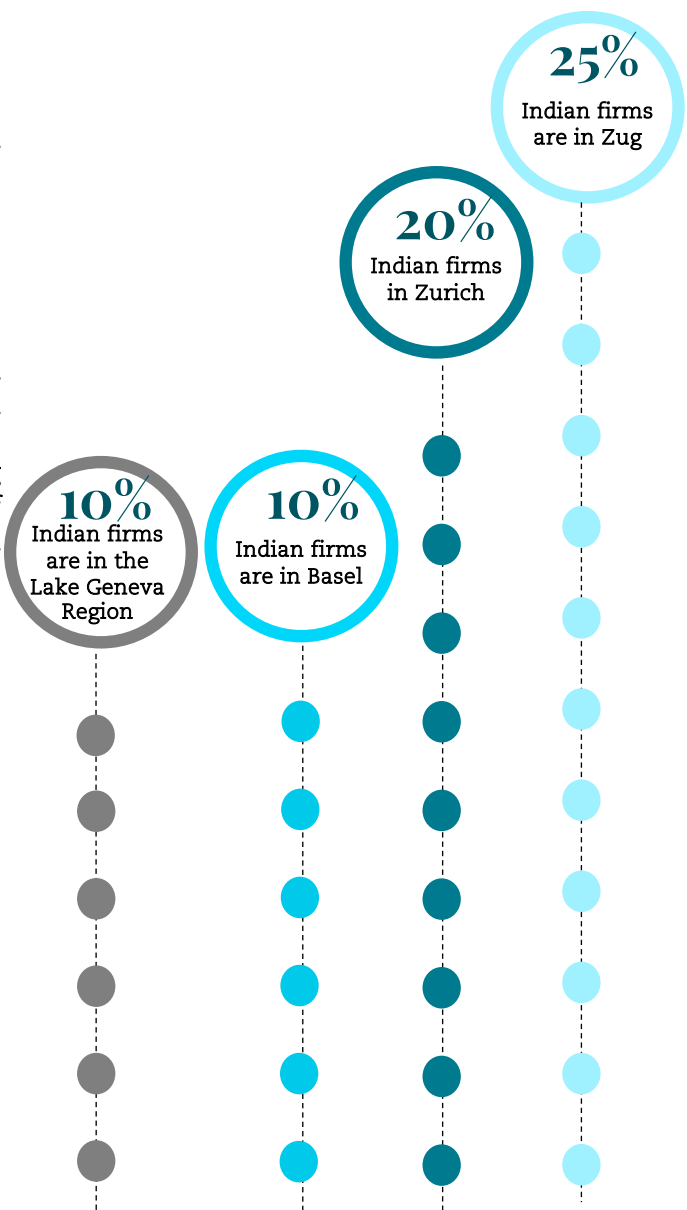


Historically, Indian investments in Switzerland have been centred around Life Sciences and Information and Communications Technology sectors. However, the outbound wave has seen a notable shift over the past few years with increasing interest from young Indian technology companies considering investments in Switzerland in new-age technologies such as Artificial Intelligence (AI), Robotics, Blockchain, and SpaceTech.

Indian Information Technology companies have made investments in Switzerland to leverage the country's talent with specialization in Data Science and Artificial Intelligence (AI) and strengthen offerings in Software as a Service (SaaS), Mobility, Cloud Infrastructure and Solutions to help clients on digital readiness.

Furthermore, Indian Life Sciences companies in niche segments such as Bioinformatics, Intelligent (or AI) Powered Drug Discovery, Integrated Drug Discovery, Nanomedicine and Personalized Medicine are looking to leverage Switzerland's strong ecosystem that is supportive of research, innovation and commercialization of applications.

*An assessment of the canton-wise distribution of Indian entities operating in Switzerland shows that Zug, Zurich, Basel and Lake Geneva Region account for **65%** of these entities.*



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