

BIOTECHNOLOGY





HIGHLIGHTS

- Over 300 Biotech Companies in the State.
- State contributes more than 30% of the Indian biotech revenues of USD 4 billion in 2014-15; 50 % comes from exports.
- State contributes to 1/3rd of the BT exports of the country.
- State has a thriving ecosystem which continues to drive Biotechnology sector's growth in the country
- Bengaluru is a leading knowledge hub with leading establishments in Science and Technology, Research and Development
- Karnataka is a popular destination for Start-ups in Biotechnology such as Criyagen Agri & Biotech, Theramyt Novobiologics, Anthem Biosciences, Mir Life Sciences and many more.
- Karnataka holds a pre-eminent position in terms of housing Internationally recognized Research and Development institutions such as IISc, JNCASR, NCBS, NIMHANS, CFTRI, IBAB, CHG, IABT and so on
- Bengaluru Bio Innovation Center launched in February 2015, in Electronics City, Bengaluru houses over 20 SMEs with access to high tech instrumentation facility to provide impetus for innovation

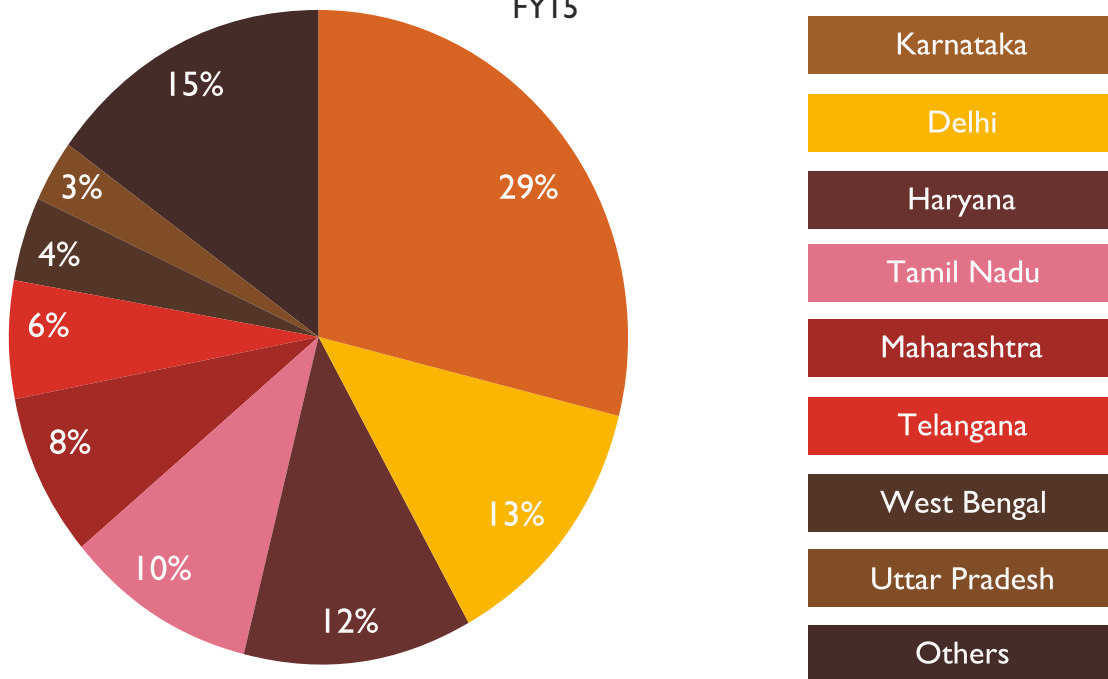




WHY BIOTECH, KARNATAKA?

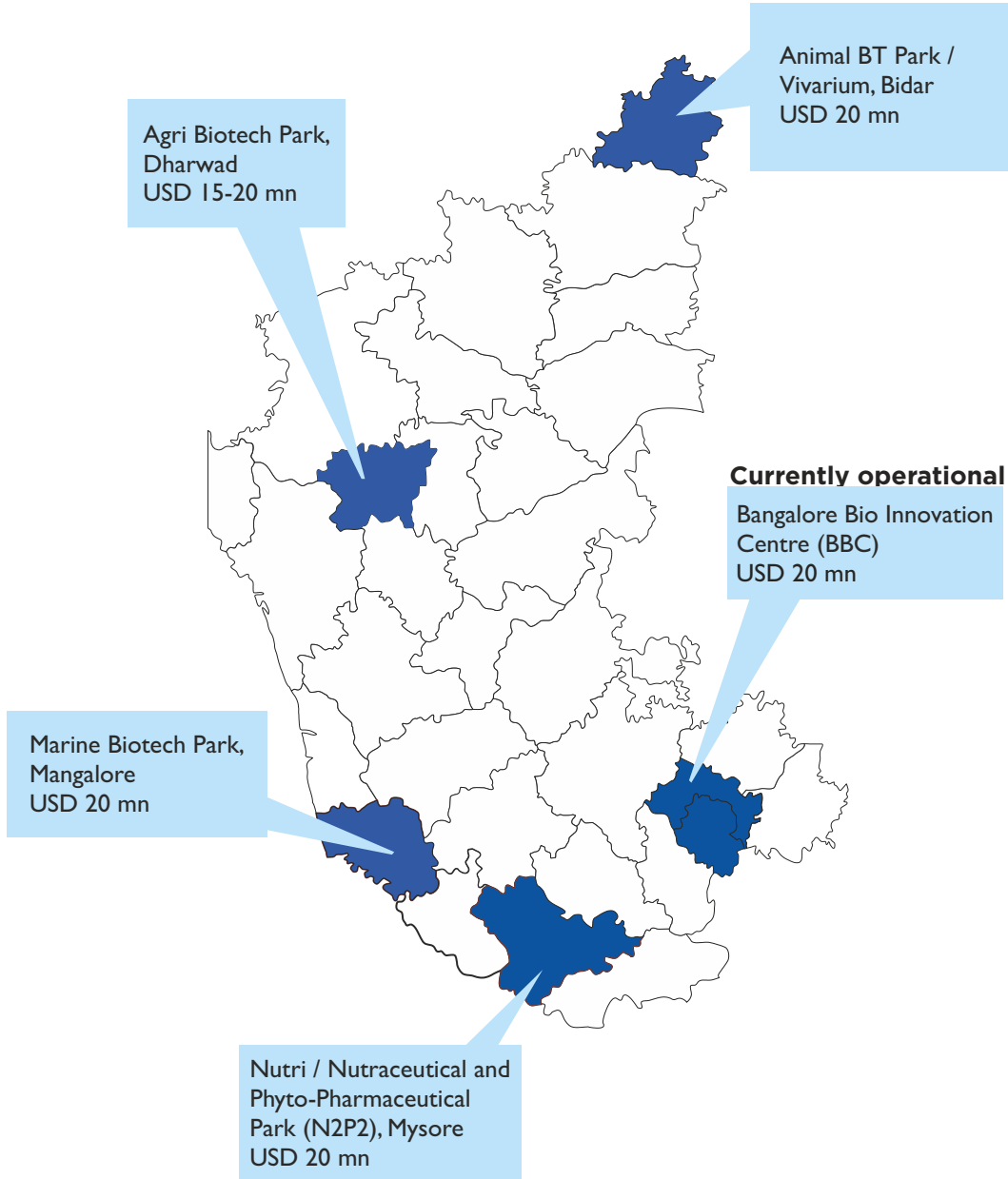
- Bangalore is the number 1 biotech hub in India with revenues of 1.18 billion in 2013-14
- Home to over 50% of the country's Biotech companies.
- Bio-Ventures Fund and Bio Innovation Centre being established with state-of-the-art laboratory facilities.
- Bangalore Bio Innovation Centre – 25 fully furnished labs to promote innovation driven R&D startups.
- 8 Biotech Finishing Schools offering post graduate diploma
- Karnataka has one of the highest R&D expenditure in India.
- In FY16, Government of Karnataka planned to raise USD7.34 million funds for research activities in biotechnology.
- The state has built up considerable resources and talent pool that are well suited for the needs of the industry.

STATE WISE SHARE FOR APPROVED BIOTECH PROJECT COST FY15





INVESTMENT OPPORTUNITIES- BIOTECHNOLOGY





AREAS OF INVESTMENTS IN BIOTECHNOLOGY



Agri Products

- Biotech Crops (Pulses, Cereals, Plantation Crops)
- Aerobic Rice (water saving)
- Sugarcane-Alternative Products

Pharma

- Vaccine technologies
- Drug Discovery (new antibiotic and other natural entities)
- Synthetic Biology



Environment

- Conversion of Waste to useful products
- Bioremediation

Energy

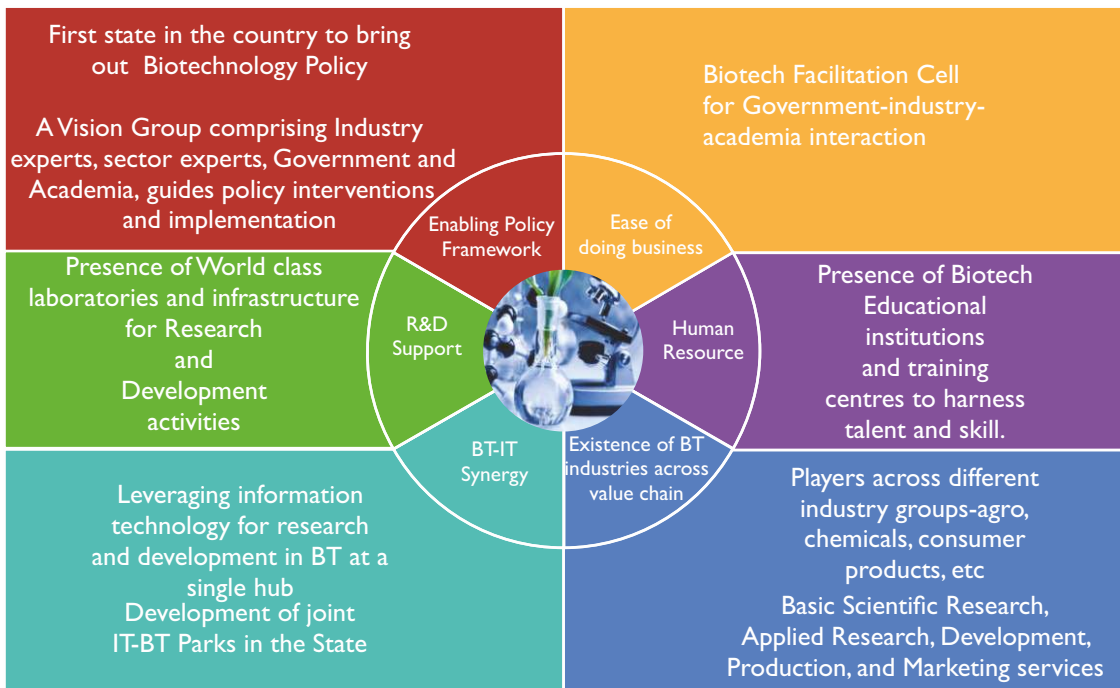
- Biofuels
- Marine Biology





GOVERNMENT INITIATIVES

- One of first Indian States to frame an industry-oriented biotechnology policy.
- Bengaluru Bio Innovation Center (BBC) has been launched in Feb 2015 in Bengaluru Helix Park, Electronics City.
- BBC with capacity to house over 20 SMEs with access to high tech instrumentation facility will be an integral part of the Biotech Ecosystem to provide impetus for innovation.
- Institute of Bioinformatics and Applied Biotechnology (IBAB) and Centre for Human Genetics (CHG) well established in Bengaluru Helix Park are being strengthened with hostel and training facilities.
- Government has signed an agreement with Council of Scientific and Industrial Research (CSIR)- Central Food Technological Research Institute (CFTRI) to establish an Incubation Suites cum Common Instrumentation Facility at Mysuru with focus on Nutraceuticals and Phyto-Pharmaceuticals.
- University of Agricultural Sciences (UAS) - Dharwad to establish an Incubation Suites cum Common Instrumentation Facility in Dharwad with focus on Agriculture and Biotechnology.
- Biotechnology Finishing School (BTFS) program strengthened through fellowship programs .
- Expert Group on Agriculture Biotechnology (EGAB) constituted as a sub group of VGBT (Vision Group on Biotechnology) has developed a comprehensive Agriculture Biotechnology Policy Document.
- A Rs. 700 crore project- Center for Biomolecular Engineering being established in Bengaluru.





BIOTECHNOLOGY COMPANIES MAKING IN KARNATAKA

