



WANKAR COLLEGE OF
ENGINEERING.

BIOTECHNOLOGY IN INDIA

Name of the Student: Dhanesh
Class-Fybt

Under The Guidance of Ms. Chitra Nair

1986

- 1. Development Of Biotechnology (DBT) established by ministry of science and technology.***
- 2. New impetus to DBT in india.**
- 3. Several centers of excellence have been established by DBT in india.**
- 4. Patent rule establish by indian government .**

BIOTECHNOLOGY IN INDIA

WHY IN INDIA??

India - An Introduction

- Population
- States/UTs
- Geographical Area
- Languages recognised
- Business language
- Per Capita Income**
- GDP**

Over 1 bn

29

3.3 mn sq kms

22

English

US\$ 1,970

US\$ 2848 bn

India - Fast pace Growth

- 
- **Largest democracy**
 - **3rd largest economy by PPP index**
 - **4th largest energy consumer**
 - **3rd largest economy by 2050: Goldman Sachs**

Biotech Market - Dynamic and growing

➤ **Size (2018)** **US\$ 11.6 bn**

➤ **Largest segment** **Biopharma**

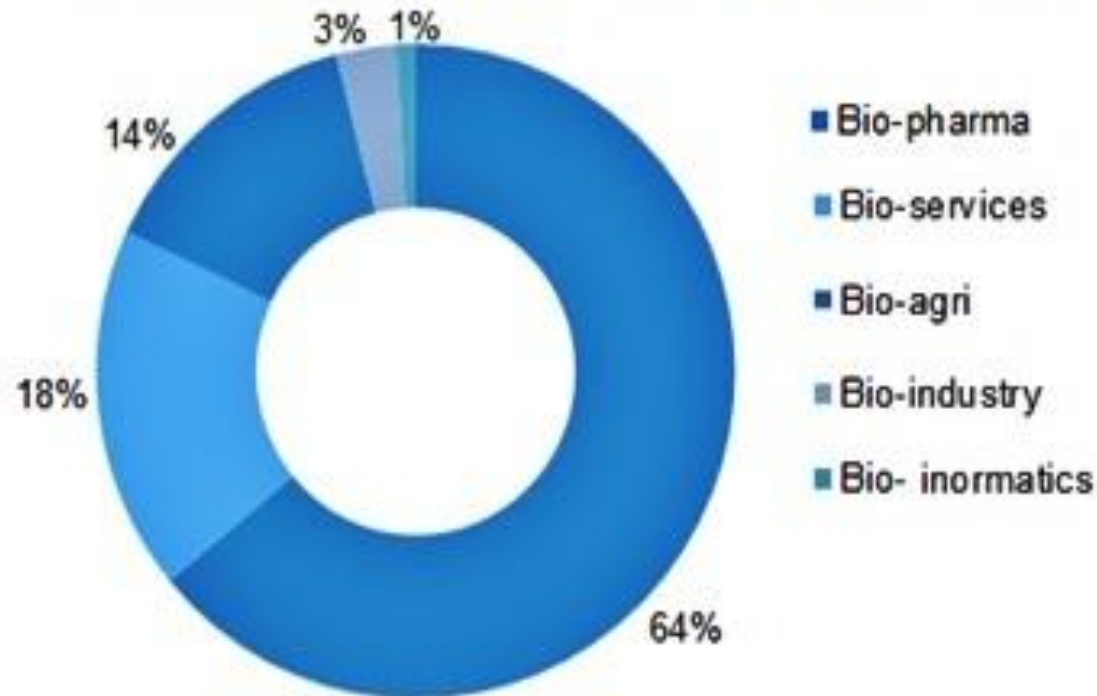
➤ **Revenue from exports (2018)** **64.5%**

➤ **Total investment (2017-18)** **US\$ 396million**
Rate of growth over 2017-18 **30.46%**

Biopharma leads the way

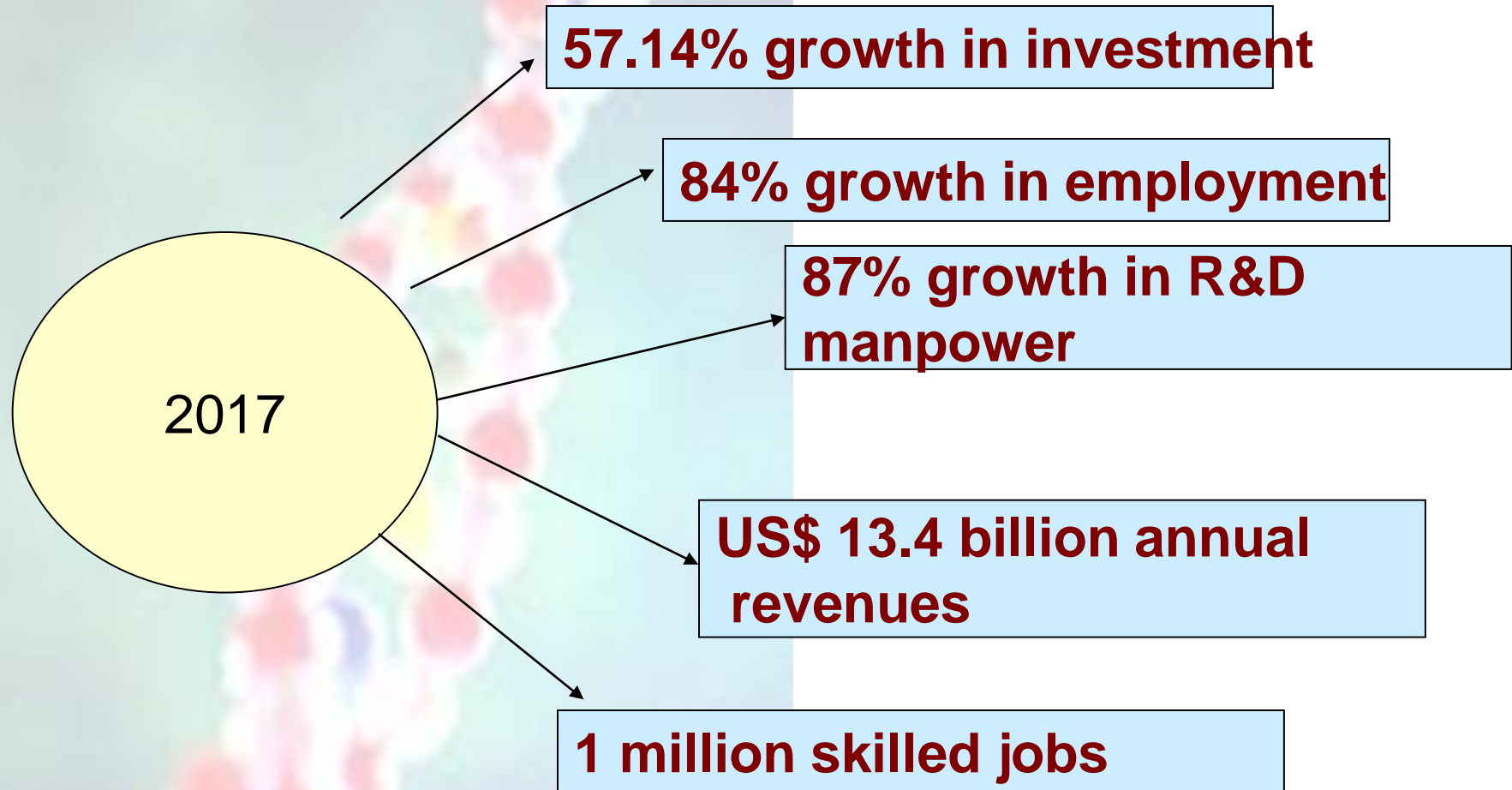
Composition of Indian Biotech Sector

Market break-up by revenues (FY16)



Source: ASSOCHAM, Makeinindia, TechSci Research,

Market - A consistent uptrend



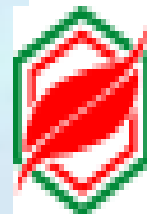
Indian Players



Nicholas

 Bharat Serums And Vaccines Limited 

WOCKHARDT



SHANTHA
BIOTECHNICS

SERUM INSTITUTE OF INDIA LTD.

The India Advantage

**Excellent network
of research laboratories**

**Well-developed
base industries**

Rich biodiversity

**Extensive clinical trials
opportunities**

**Trained manpower
and knowledge base**

The Infrastructure Advantage

➤ **66 National Research Institutes**

36,000 scientists

➤ **over 350 life sciences colleges**

Over 500,000 graduates per annum

➤ **Over 200 medical colleges**

Over 20,000 medical graduates per annum

➤ **More than 800 biotec companies**

Employing 45,000 scientists in R&D

➤ **More than 600 teaching hospitals**

Employing medical & paramedical professionals

Biotechnology is rapidly developing in India

Many institutions are contributing in Biotechnology

Many colleges are promoting Biotechnology

BEST BIOTECH COLLEGES IN INDIA

- 1.Rajiv Gandhi Center for Biotechnology, Trivandrum.**
- 2.School of Life Sciences, University of Hyderabad.**
- 3.National Dairy Research Institute, Karnal.**
- 4.Institute of Chemical Technology, University of Mumbai.**
- 5.Department of Biochemical Engineering & Biotechnology, Indian Institute of Technology, New delhi.**



**THANK
YOU!!**

VPM'S B.N.B. BHANDODKAR COLLEGE OF
SCIENCE, THANE.