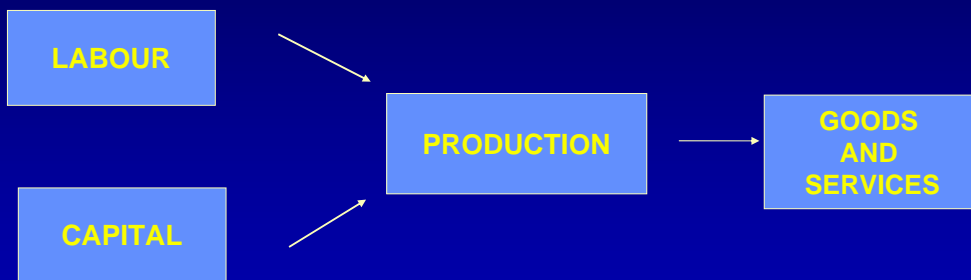


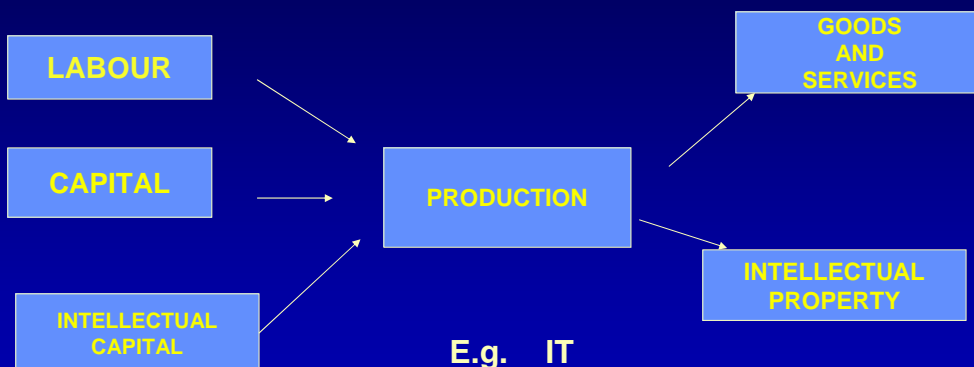
## Traditional Concept of Industry

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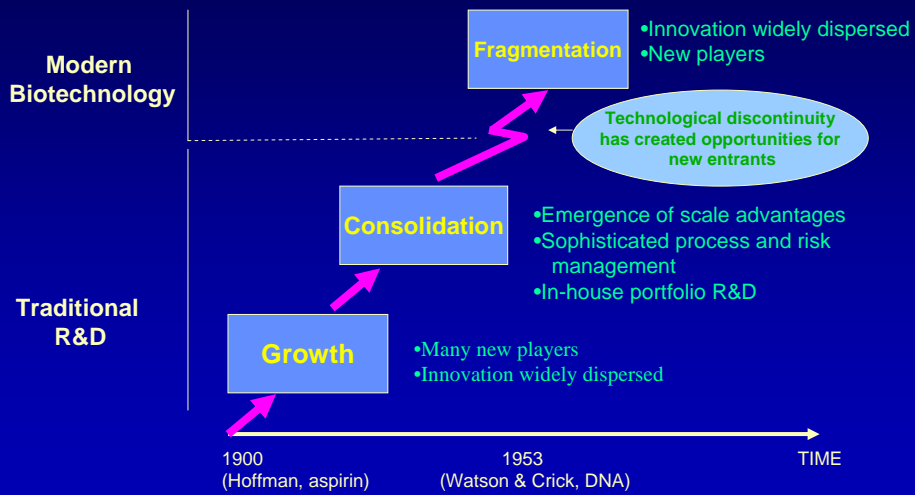
## The New Paradigm

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E.g. IT  
Biotechnology

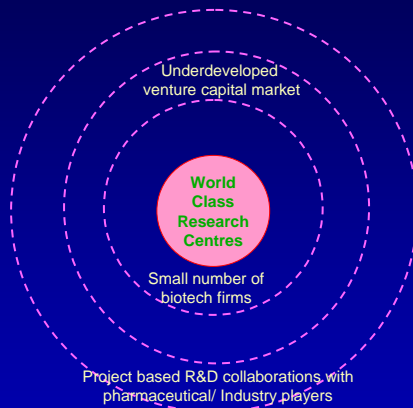
# Impact of Biotechnology on the Pharmaceutical Industry



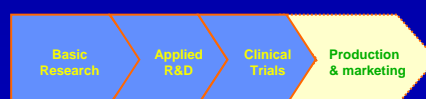
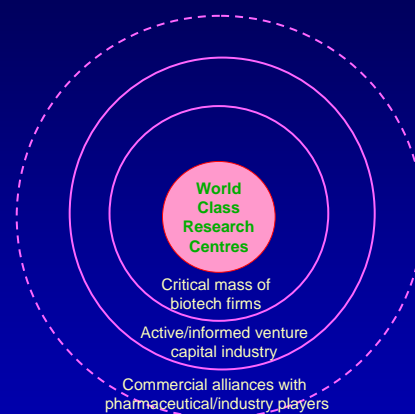
The Boston Consulting Group for The Committee for Melbourne

# Two Types of Cluster

## RESEARCH CLUSTER



## COMMERCIAL CLUSTER



The Boston Consulting Group for The Committee for Melbourne

## BIO 21

Maximising effectiveness (public good, commercialisation) of biomedical research requires:

- ◆ Greater collaboration between researchers, clinicians and industry
- ◆ Involvement of scientists from many disciplines - mathematics, chemistry, physics, IT as well as biological & clinical
- ◆ Sharing of expensive equipment, expertise and platform technologies
- ◆ Ready access to expertise in IP, product development

Best achieved by combination of :

- ◆ some geographic “clustering”
- ◆ effective “virtual” clusters

## BIO 21

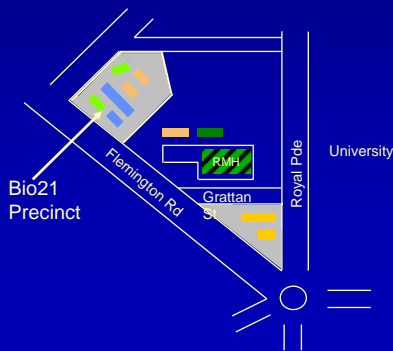
Three essential components:

1. New buildings on Western (Veterinary) precinct, RMH & Dental Hospital sites, facilitating research & development in combination with existing University, Hospital & Research Institutes in the immediate precinct.
2. Development of effective linkages between University of Melbourne, Monash, teaching hospitals, research institutes to achieve sharing of precompetitive aspects of research & development.
3. Better links with industry, (biotech & pharmaceutical) IP management expertise, venture capital, product development expertise.



## *Powering Victorian biotechnology into the 21st century*

### Bio21 Parkville: Health & Pharming



Founding Partners:

- University of Melbourne
- Walter & Eliza Hall Institute
- Royal Melbourne Hospital

### **New RMH/Western Precinct/Dental Hospital Component**

#### **Cluster 1 W.P. site**

#### **Institute for Molecular Science and Biotechnology**

- research & p.g. components of Biochem & Chem
- research groups from physics, maths, engineering etc with biomedical focus
- MRC, BRI, space for groups from other unis, institutes
- “incubator” facilities for “start-up”

**Possibly - biotech company(ies)**

## Cluster 2 *RMH - Westward extension of WEHI*

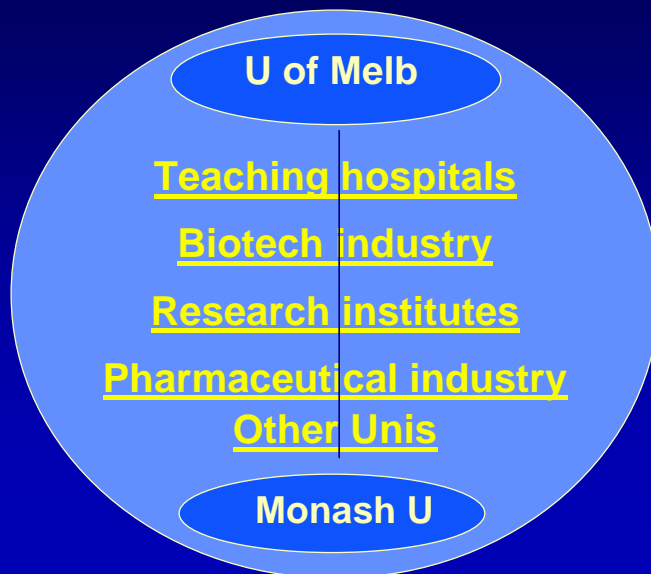
- ◆ Expansion of WEHI
- ◆ New facilities for Ludwig Institute
- ◆ Perhaps - MHRI, NARI

## Cluster 3 *Dental Hospital Site*

- ◆ National Bioinformatics Centre
- ◆ Health & Population Informatics Centre
- ◆ School of Population Health (U of M)
- ◆ Clinical Trials Centre (linked to CDCT)
- ◆ Conference Centre Facilities
- ◆ Public and School Education Centre
- ◆ Offices for IP, venture capital, product development expertise

## Important to Emphasise

RMH/WP/DH component is part of a greater Melbourne biomedical research precinct



## Indicators that Bio 21 has worked

By 2007

1. Western Precinct and Dental Hospital sites fully developed with blend of basic research and commercial activities.
2. Biotechnology a major contributor to a vibrant economy in Victoria, with substantial international investment.
3. Scientific research viewed by secondary school students and counsellors as a high prestige, exciting and desirable career.
4. Victoria the recognised centre for medical research and biotechnology in Australia, with >45% of NHMRC funding.
5. State of the art clinical trials centre, bioinformatics, health informatics, genetic epidemiology and population health.