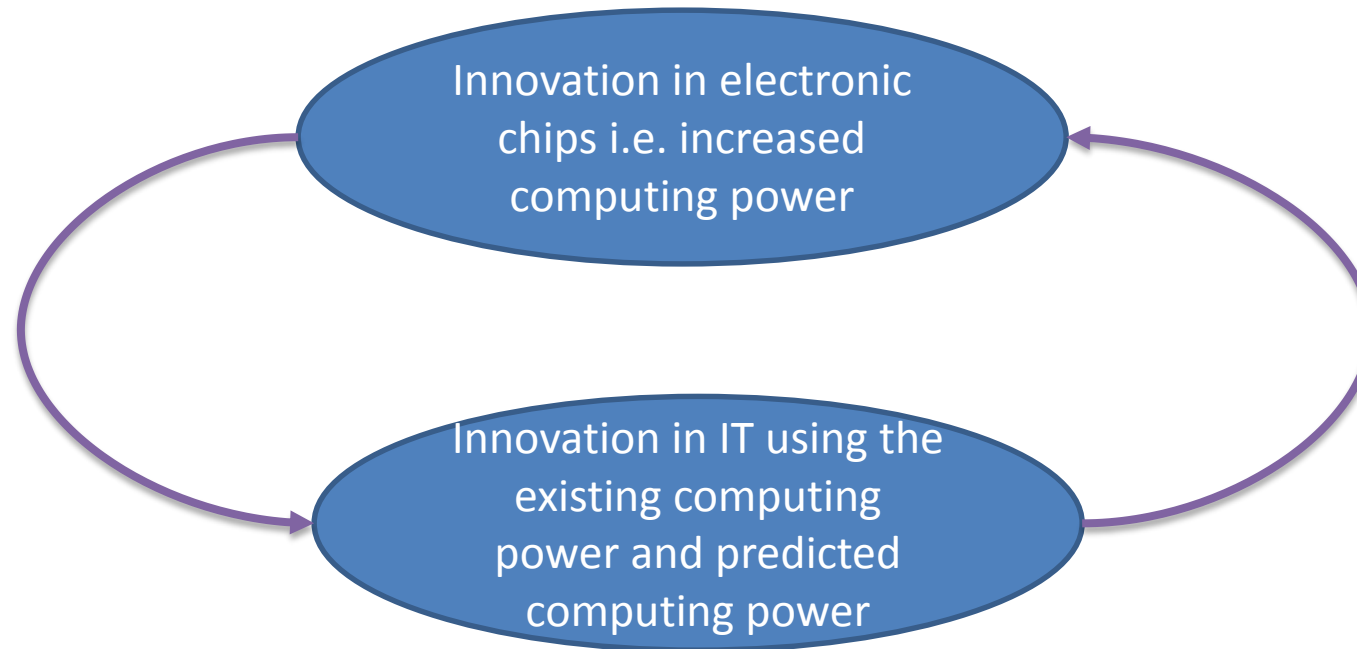


WEEK 3 COURSE HANDOUT

MOORE'S LAW

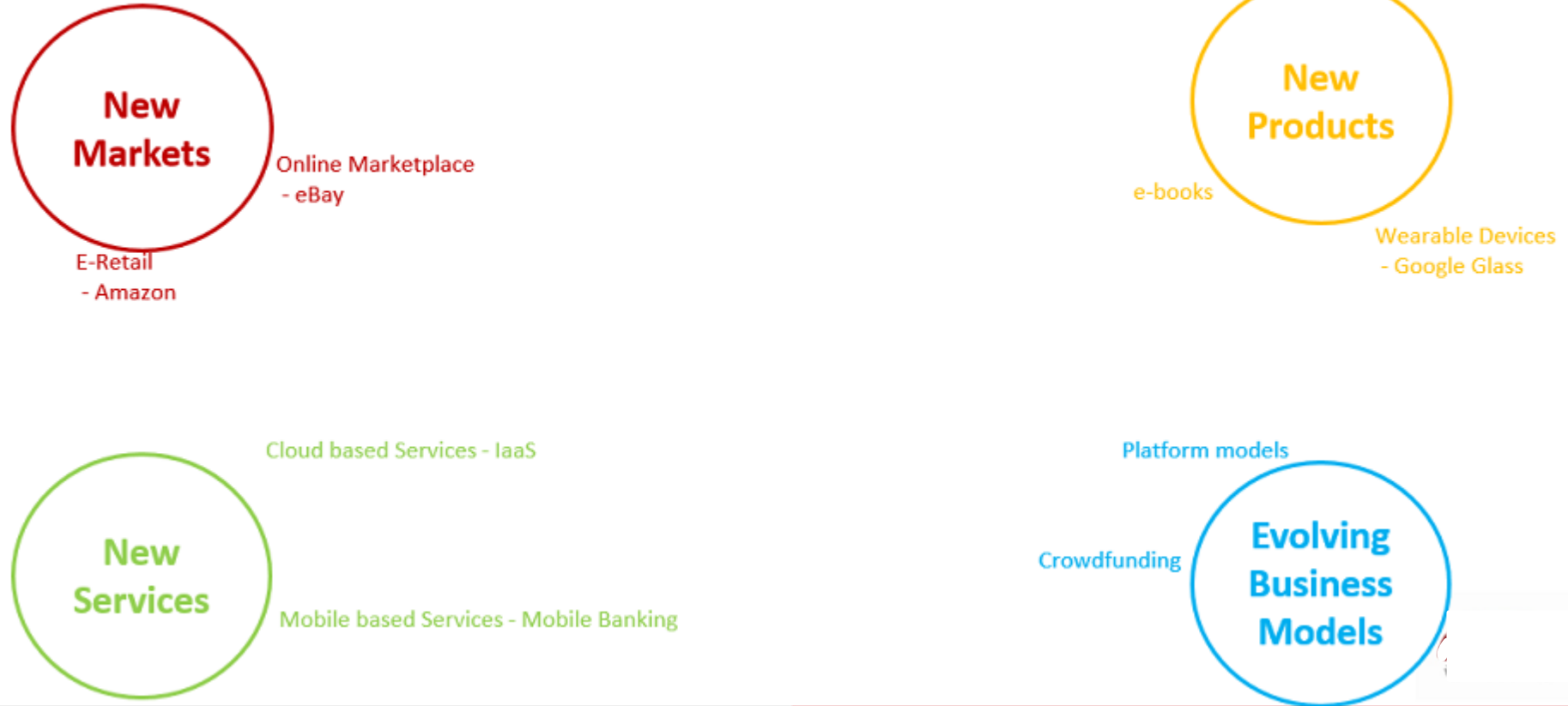
Innovations due to Moore's Law

Most of the innovation in the electronic chip industry has been driven by Moore's Law, making possible stupendous innovations in IT



INNOVATING WITH IT

Types of Innovations using IT



Managers Guide to Innovation

Initial Stage

- What is the importance?
- Impact on the organisation?
- Gaining attention?

Evolving Stage

- Current level of adoption of this technology?
- Platform and Network effects?
- Vendor offerings?
- Hype or Real?

Evolved Stage

- Successful implementations?
- Failed implementations?
- Growth of consultation practices?

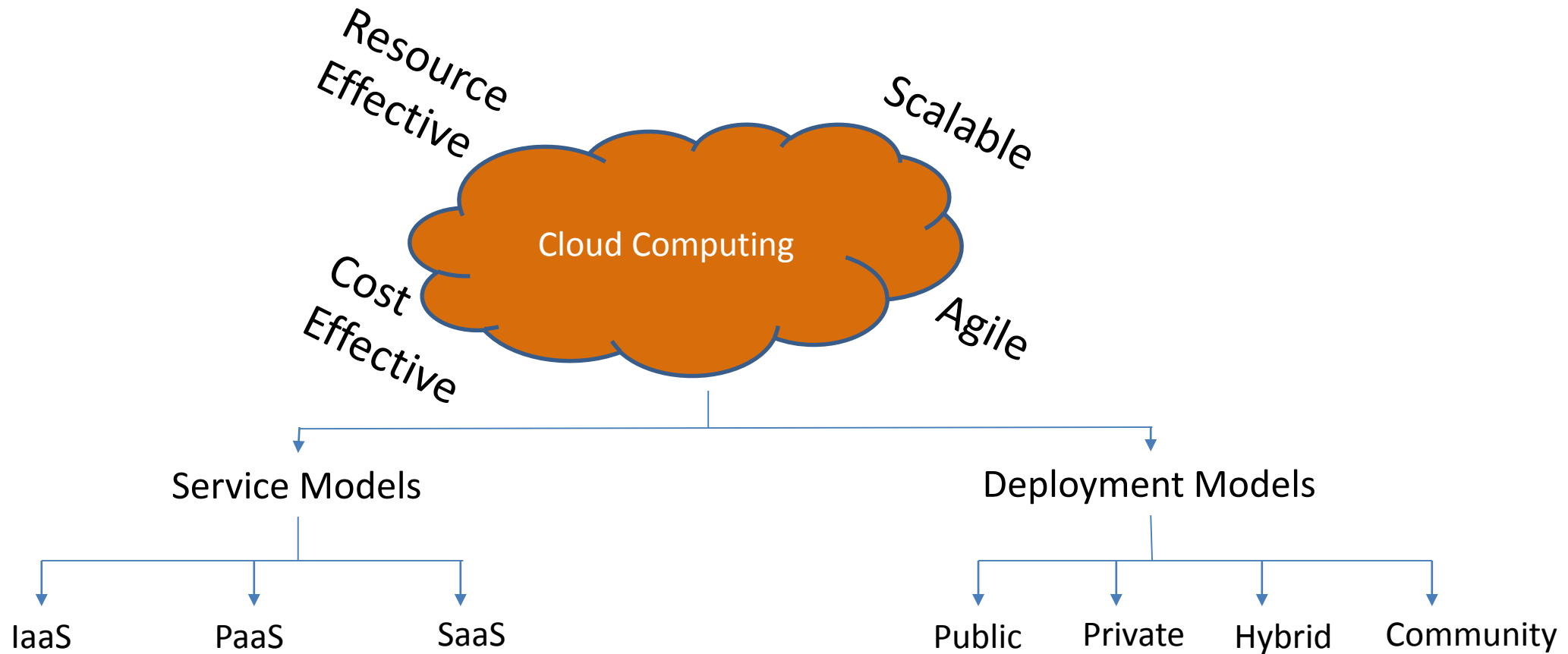
Mature Stage

- Compelling success stories?
- Has it helped achieve business value?

EVOLVING IT

CLOUD COMPUTING

Cloud Computing – Evolving stage of innovation

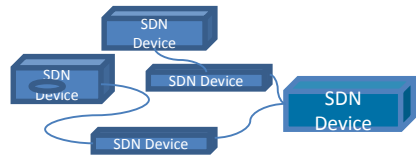


SOFTWARE DEFINED NETWORKING

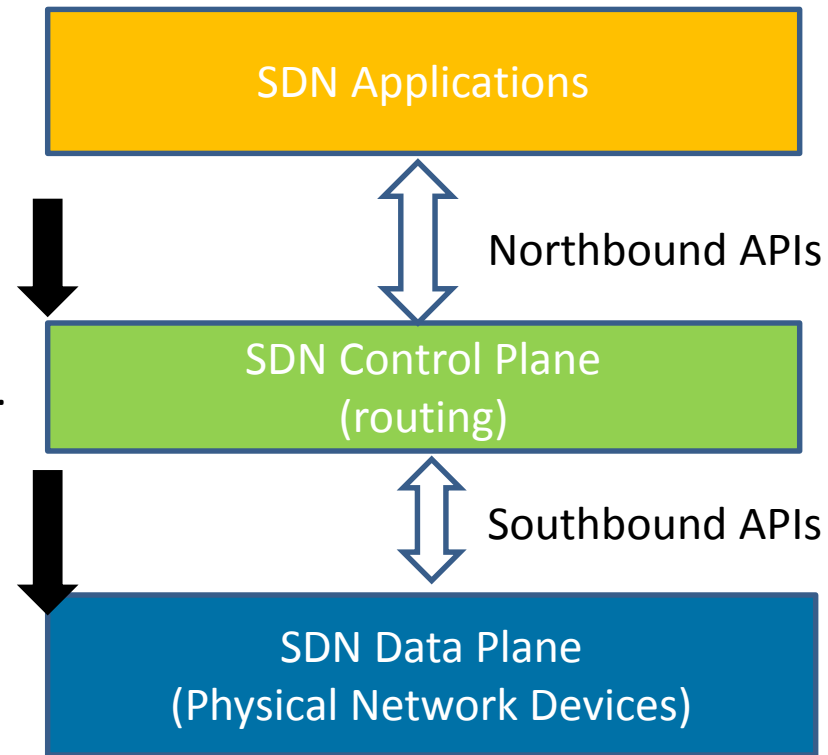
A bird's eye view of how SDN works

SDN applications send the network requirements

Control plane has a view of entire network topology, routing protocols needed & much more. It makes routing decisions. Can potentially assemble the SDN devices based on SDN application requirements & policies

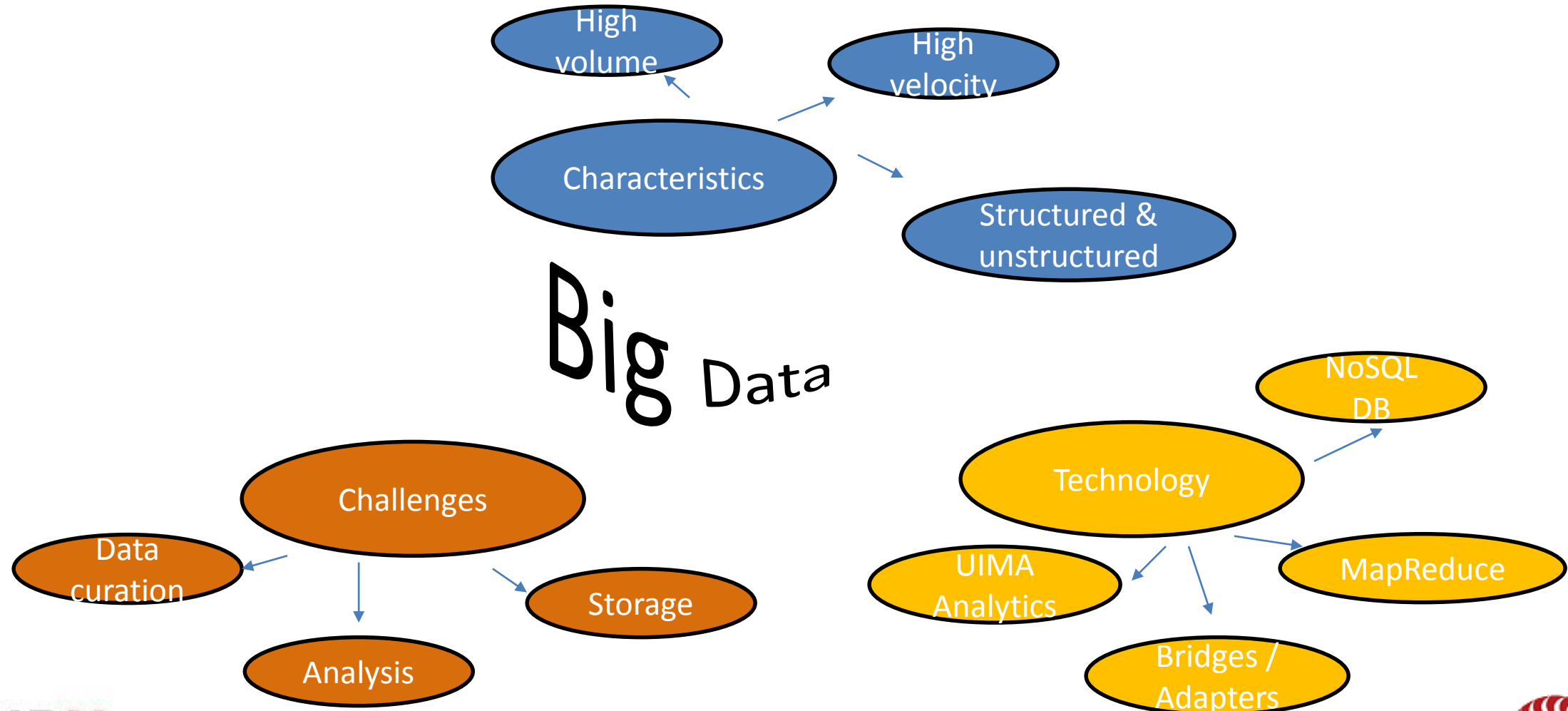


Data plane forwards the packets



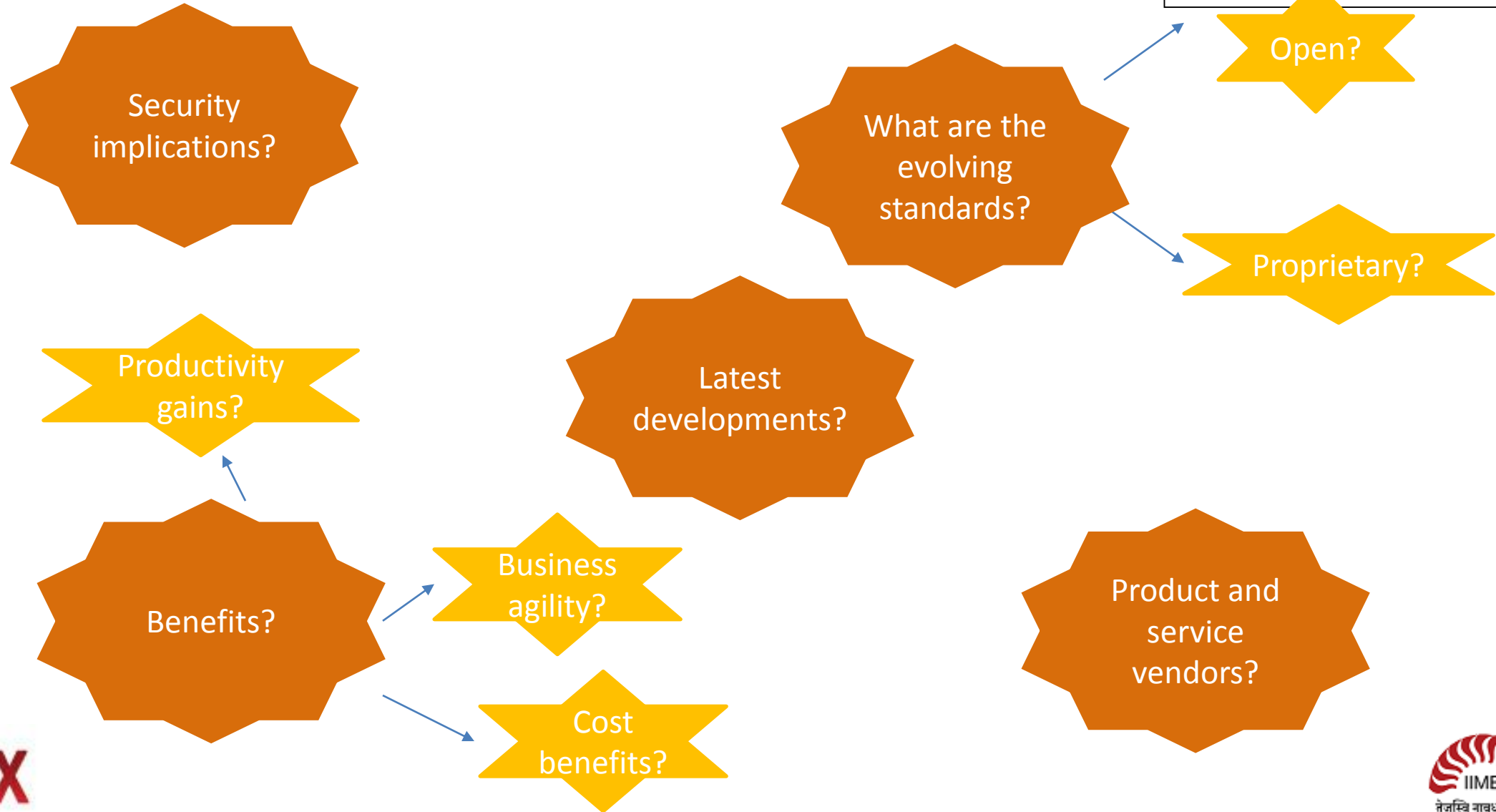
BIG DATA

Big data – Evolving stage of innovation



Important decisions to be made

Innovation and IT Management
Prof. Rahul De', IIM Bangalore



DECISIONS TO BE MADE

When should
Open source
be used?

How much
to spend?

Which
business
processes?

Which IT
capabilities
should be
centralized?

How much
performance?

**9
Decisions**

What
services on
Cloud?

Whom to
blame?

How much
security and
privacy?

How fast and
flexible?