Return to

Advanced

MANUFACTURING

Innovation China 2016

Min Zhou

创新中国2013国际论坛
East
创业
东方 & 西方

创业
东方 & 西方
West

&
创业

INNOVATION CHINA 2013
创新中国2013国际论坛
Innovation
East
创新 & 创业
东方 & 西方
Entrepreneurship
West

INNOVATION CHINA 2015
SEIF
创新中国

SAMSUNG

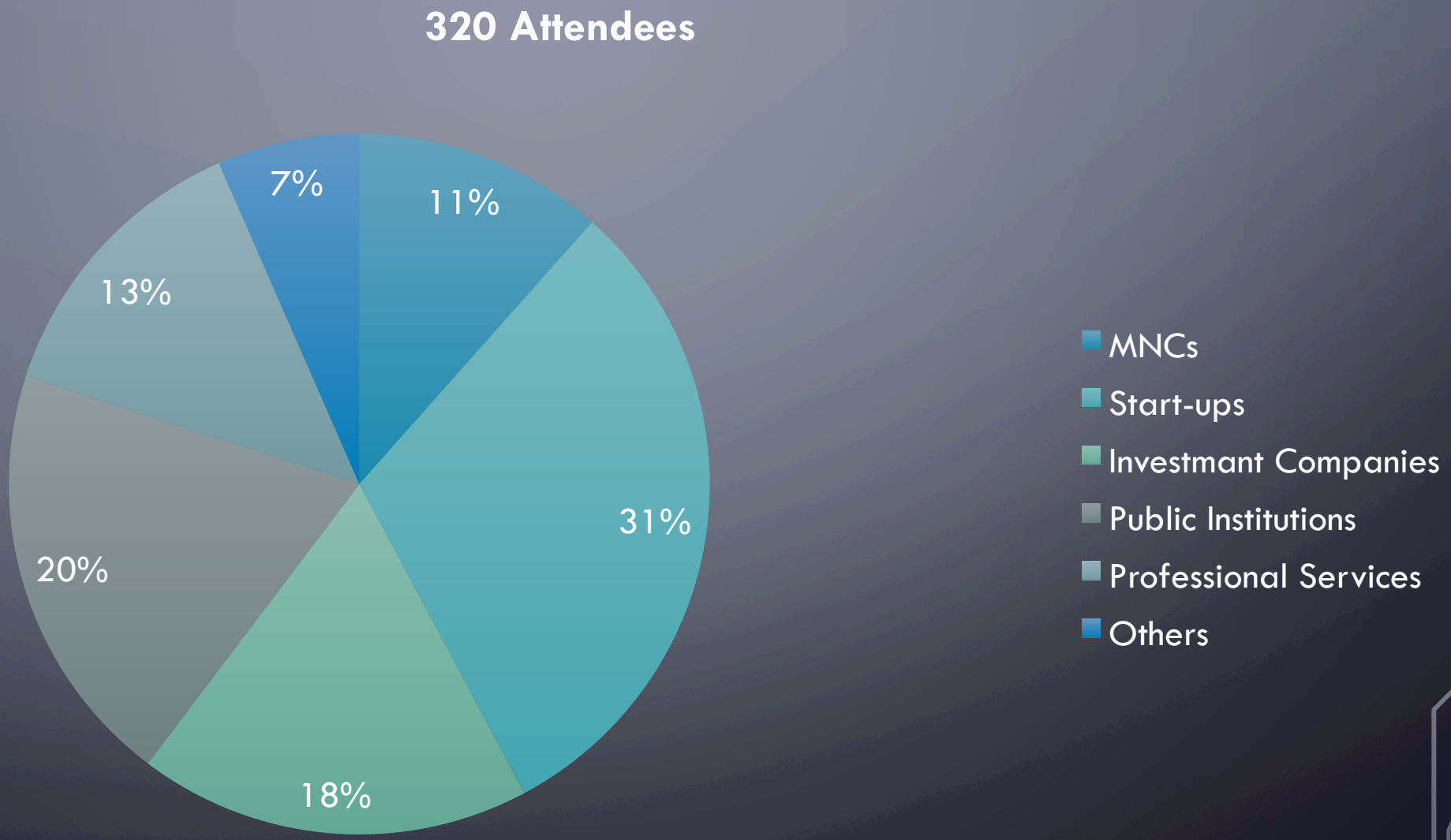
上海戰略新興產業發展基金會
JOSH LERNER

SEIF

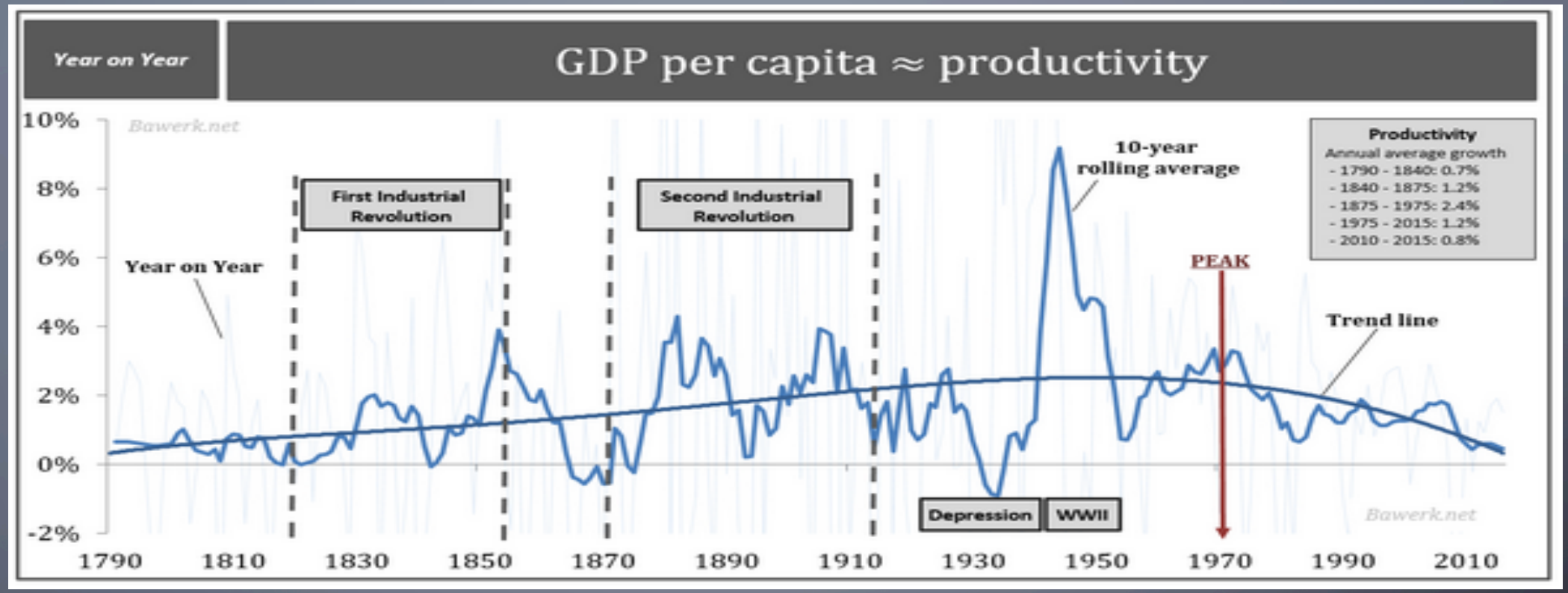
INNOVATION CHINA 2015
创新中国

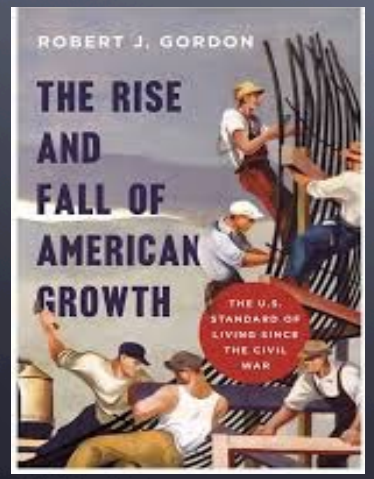
SEIF
2015创新中国
ShanghaiTech

INNOVATION CHINA 2016



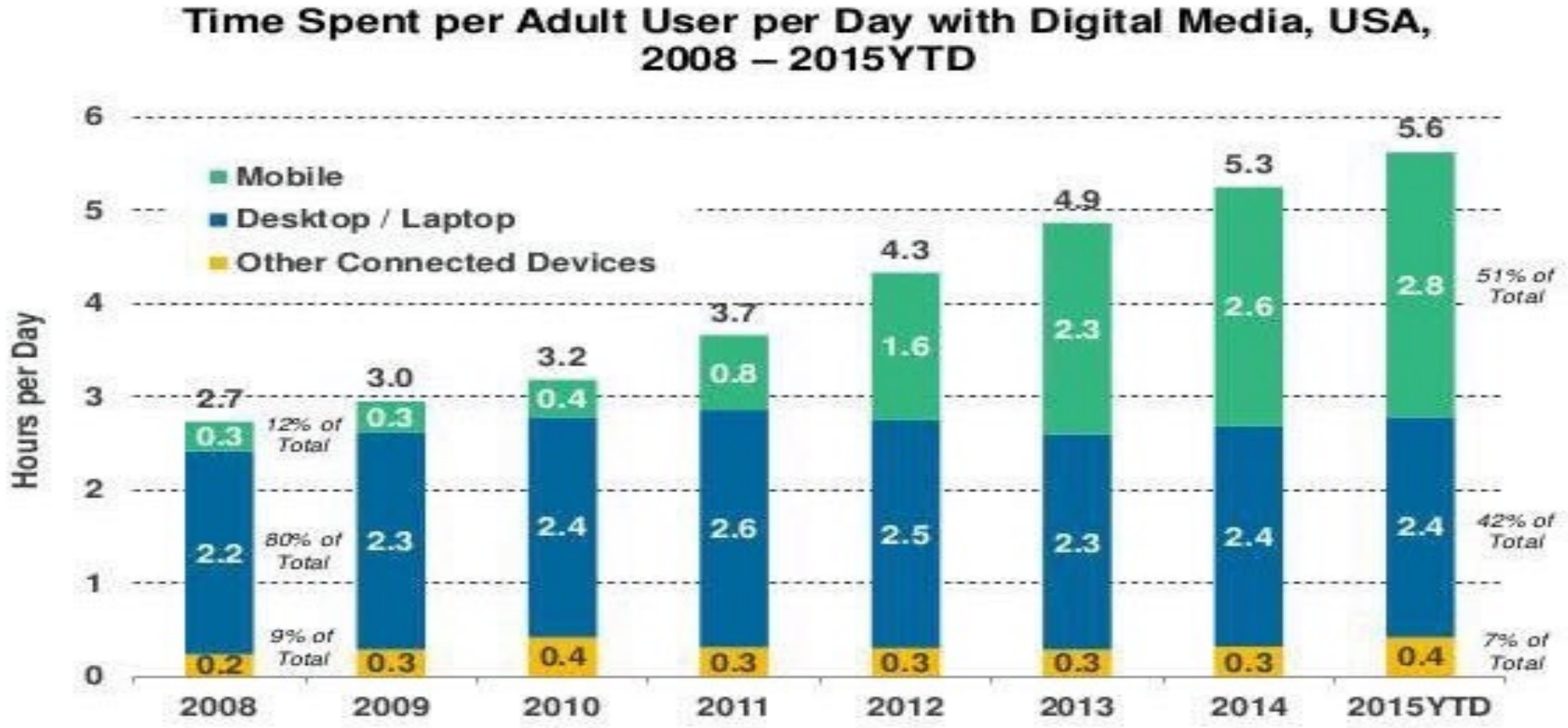
Why Manufacturing?
Why Now?



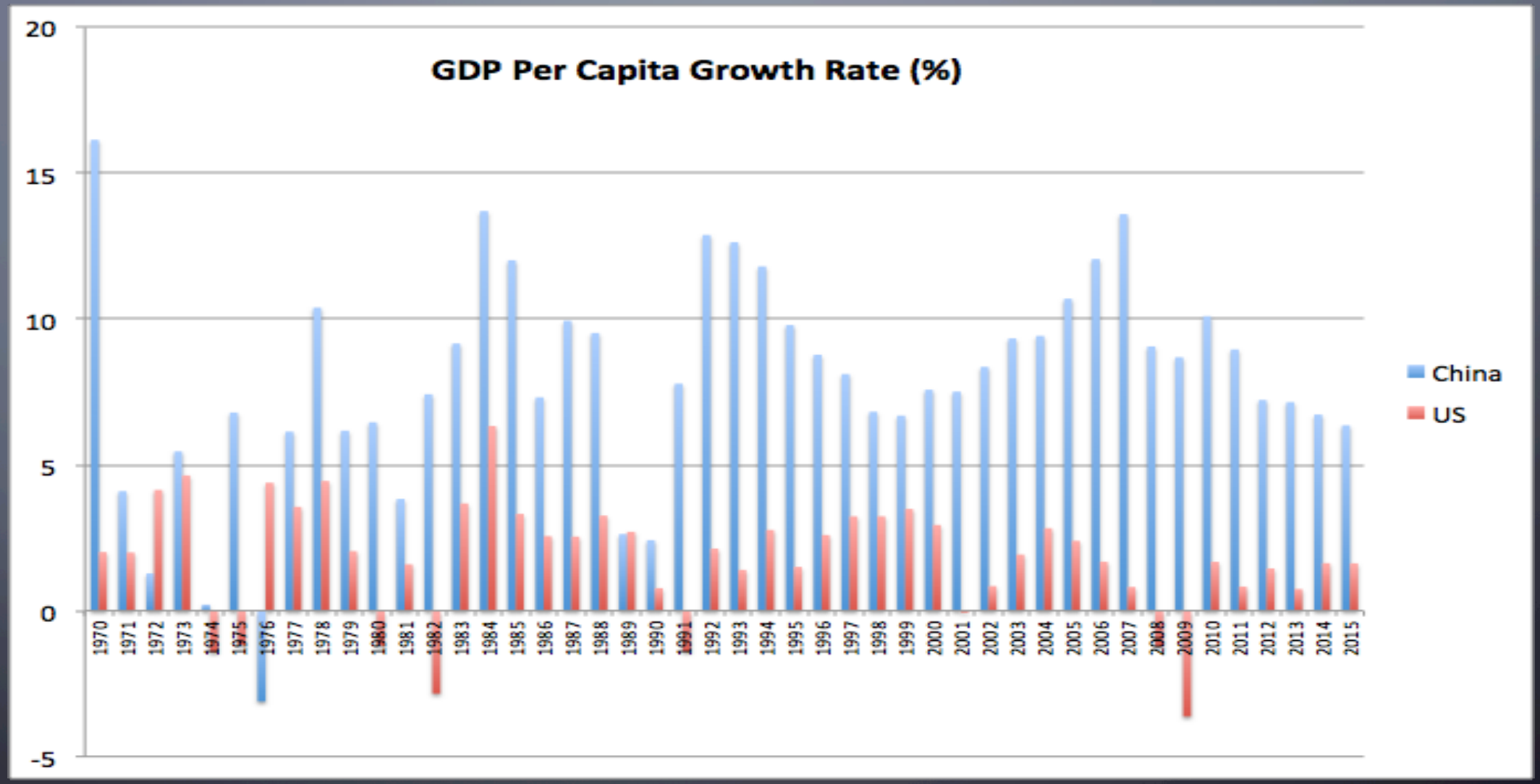


The US became an unsustainable service-sector-based economy from the 1970s onward when service sector employment diverged from manufacturing Without a corresponding boost in productivity.

Internet *Usage* (Engagement) Growth Solid
+11% Y/Y = Mobile @ 3 Hours / Day per User vs. <1 Five Years Ago, USA

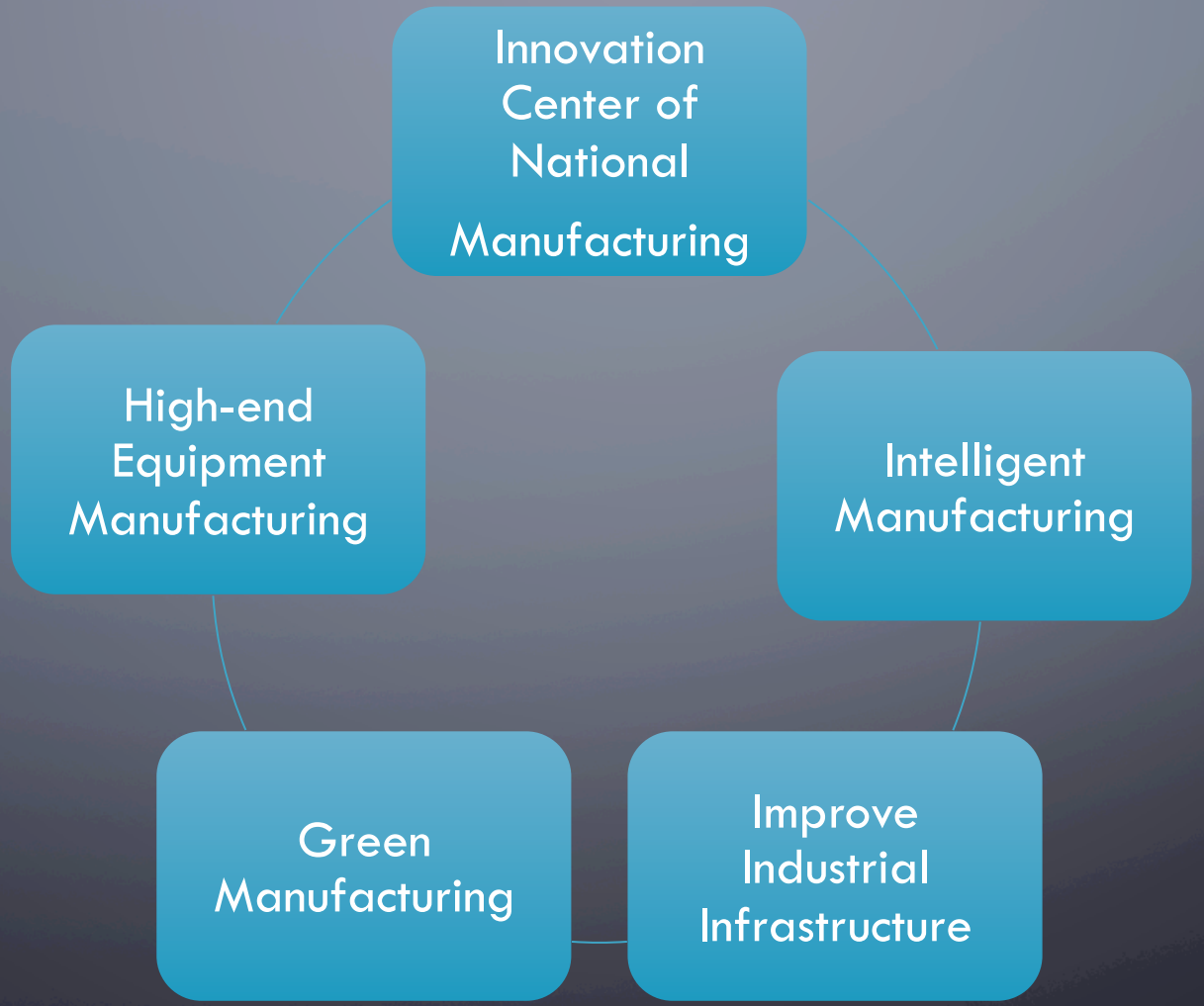


@KPCB Source: eMarketer 9/14 (2008-2010), eMarketer 4/15 (2011-2015). Note: Other connected devices include OTT and game consoles. Mobile includes smartphone and tablet. Usage includes both home and work. Ages 18+; time spent with each medium includes all time spent with that medium, regardless of multitasking.


GDP Per Capita Growth Rate (%)
20
15
10
5
0
-5
1970
1971
1972
1973
1974
1975
1976
1977
1978
1979
1980
1981
1982
1983
1984
1985
1986
1987
1988
1989
1990
1991
1992
1993
1994
1995
1996
1997
1998
1999
2000
2001
2002
2003
2004
2005
2006
2007
2008
2009
2010
2011
2012
2013
2014
2015
China
US

China Manufacturing 2025

Five directives

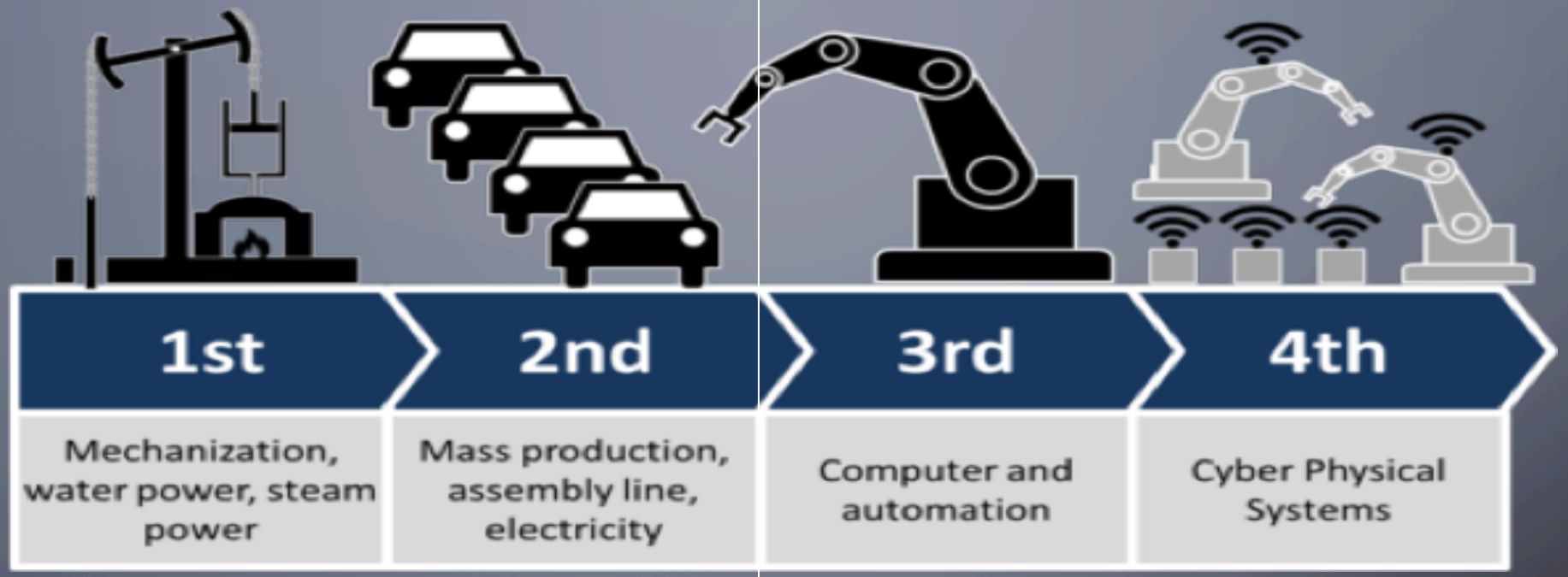


Technology pillars

- Big data throughout industry value chain
- Corporate IT system based on cloud
- More-market-oriented design
- Social platform for communication
- Customized production via 3D printing
- Robots for high-efficiency production
- IT promotes cross-industry collaboration and new business model

Opportunities for Venture Capital?

Opportunities for leapfrogging and new standard



Digitization

Robotics

Logistics

IOT

3D printing

Enterprise

Example: industrial gas industry

SAFETY REGULATION

- In China, gas cylinders are listed in special eqipments which are under strict supervision by goverments
- How to convert the addiontal cost incurred by gov spervision to necessary investment for growing the company?

MARKET NEED

- The end users of gas cylinders are mostly small and medium enterprise. How to gather relevant data and make response to this dynalmic market?
- how to build core competence in the sector by means of big data?

PRODUCTION MANAGEMENT

- How to resovle the contradication between outdated production infrastructure and complicated customer, gases and cyilnder modles
- Operation team is facing severe chanllenge: rising labor cost and very high empolyee turnover

ASSET MANAGEMENT

- difficult to differ and manage customers' cylinders and its own cylinders when they are mixed in the cylinder fleet
- discrepancy between accouting book and real cylinder asset in the invenotry because of lacking effective management
- low cylinder turnover and ROI while many idle cylinder sitting in warehouse and cusomer sites

Thingple 炘璞电子

Simply Connecting Everything

Strategic Partner of 天海工业 BTIC TIANHAI INDUSTRY

Implemented at 宝钢气体 BAOSTEEL GASES

An Industrial IOT Company

UHF – RFID SMART CYLINDER TOTAL SOLUTION by THINGPLE – tracking reinvented

- Smart RFID reader with embedded intelligence
- Eliminates middleware for quick installation and lower cost
- Hassle-free docking with enterprise software
- 100% read rate and on-reader event processing
- Data transparency and total asset visibility
- Data stored in a cloud-based database in real time
- High ROI from improved productivity
- Effort-less compliance with safety regulation
- Partnered with prominent cylinder-maker Tianhai Industry, to offer gas cylinders with tags incorporated at the factory

+86-21-6140-9750 sales@thingple.com www.thingple.com

Opportunities for consolidation and growth

14,000	Industrial gas companies in China
140 million	Cylinders

Opportunities for new materials and technologies

Semiconductor

- Photoresist
- Silicon wafer
- SOI
- GaN
- SiC
- Superconductor
- CdZnTe
- Scintillation Crystal

Display

- CNT
- Touch Screen Material
- Liquid Crystal
- Optical Films
- OLED
- Sapphire
- Flexible Display

Electronics

Environment Protection

- High Temperature Filter
- Catalyst for Denitrification
- Catalyst for Exhaust Gas
- Water Treatment Membrane

Energy Storage

- Li-ion Anode
- Li-ion Cathode
- Li-ion Separator
- Fuel cell materials

Energy and Environment

Manufacturing

- Carbon Fiber and Composite
- Rare Earth
- Modified Plastics
- Ceramic
- Coating
- Crystals

Construction

- Low-E Glass
- Phase Change Material
- Fire-resistance wall
- Anti-corrosion Paint

New and Emerging

- 3D Printing
- Graphene
- Biomaterials
- Biomimetic materials
- Biodegradable materials

50+ Notable robotics companies

INDUSTRIAL ROBOTS

QKM 李群自动化 · EFORT · ROBBY · Geek+ · 固高科技 GOOGOLTECH · DOBOT · EAI · TM TECHMAN · 水岩科技 Water Rock Technology · 云迹科技 YUNJI TECHNOLOGY · QIFEI · ORANGE 奥瑞艺自动化科技 · STARKBOT · dorabot · ROKAE · ROBOT PHOENIX 翼菲自动化 · 圭目机器人 GUIMU ROBOT · atomrobot · ePropulsion TECHNOLOGY

VISUAL

PERCIPIO.XYZ · SLAMTEC · human+ · 速感科技 · DEEPGLINT 格灵深瞳 · megvii · evomotion · 依图 YITU · ii science · ReadSense

AI

Horizon Robotics · Kneron · 捷通华声 SinoVoice · CloudMinds · Rokid · 云从科技 · DEEPHI TECH · InnoTREE 因果树 · ruyi.ai · EMOKIT

VOICE

Mobvoi 出门问问 · 图灵机器人 TURING ROBOT · Pachira · 云知声 Unisound · Elitenect Technologies · SoundAI · AISPEECH 苏州思必驰

DOMESTIC

Gowild · roboming · UBTECH · 寒武纪智能 · LEJU ROBOT · CANBOT · Makeblock · roobo · vincross