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The industrial revolution has had three or four duplications in efficiency in 200 years

Erik Brynjolfsson & Andrew McAfee

Exponential Growth

$$x_t = x_0(1+r)^t$$

Why We Can't Predict Technology Well

Growth Types

Linear Growth VS Exponential Growth

If 1 step = 1 meter.
30 steps takes you 30 meters

If 1 step = 1 meter. Step 30 takes you around the world 26 times!

Human Perception

Technology Growth

Exponential Industries

- Computing (Quantum)
- Bio Tech/ Medicine (Nano)
- Office (Augmented + VR)
- Learning (VR + Online)
- Manufacturing (3D)

Surprise Factor

Humans

Humans have evolved to perceive change in a linear way

Technology changes have been slow and predictable in the past

Growth Types
Exponential
Linear

Ref. SingularityHUB

Frank P Amodeo 2016

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TESLA

Today, if you're not disrupting yourself someone else is; your fate is to be either

the disrupter or the disrupted. There is no middle ground.

Salim Ismail

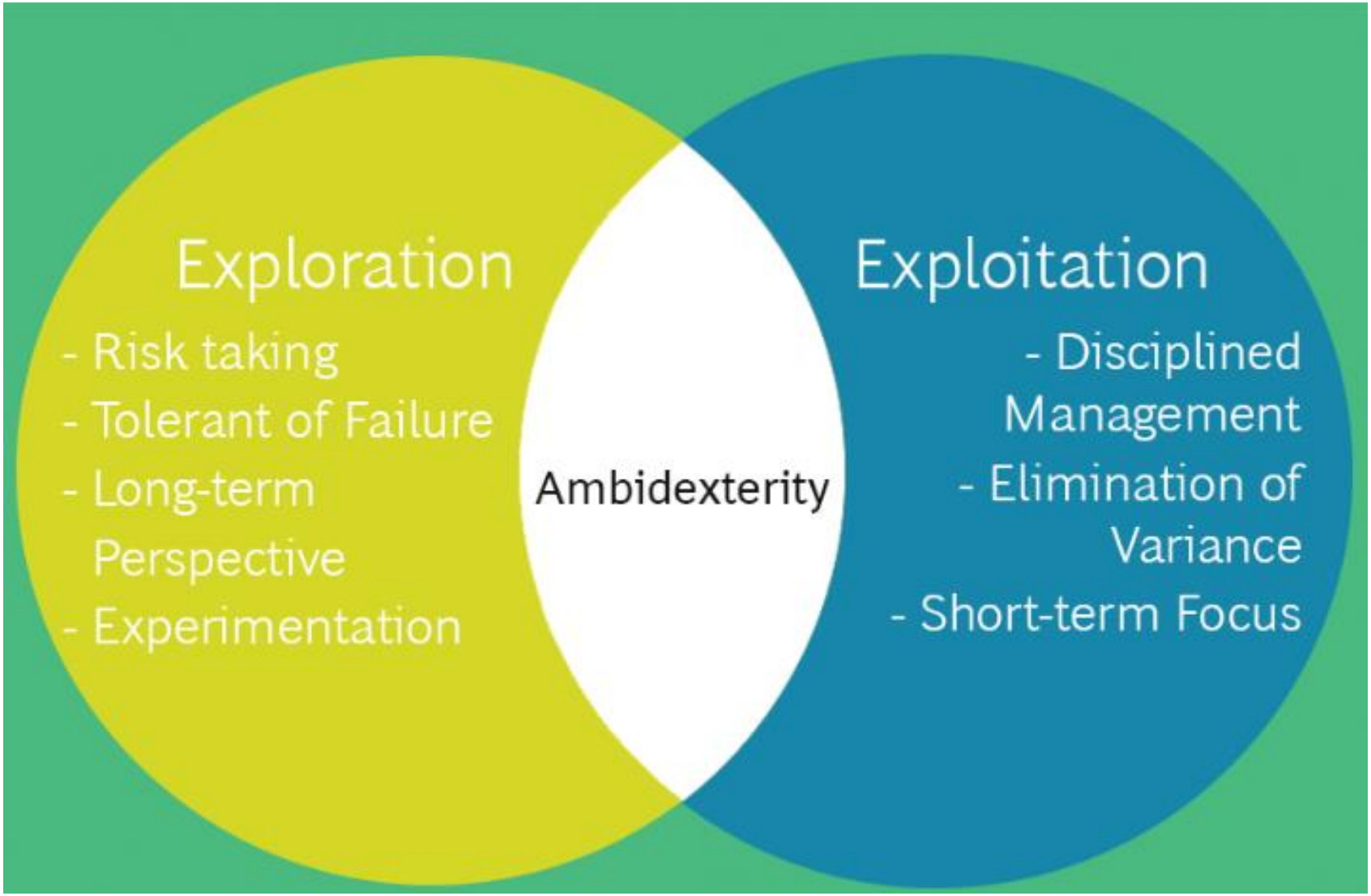
Exploration
- Risk taking
- Tolerant of Failure
- Long-term Perspective
- Experimentation
Ambidexterity
Exploitation
- Disciplined Management
- Elimination of Variance
- Short-term Focus

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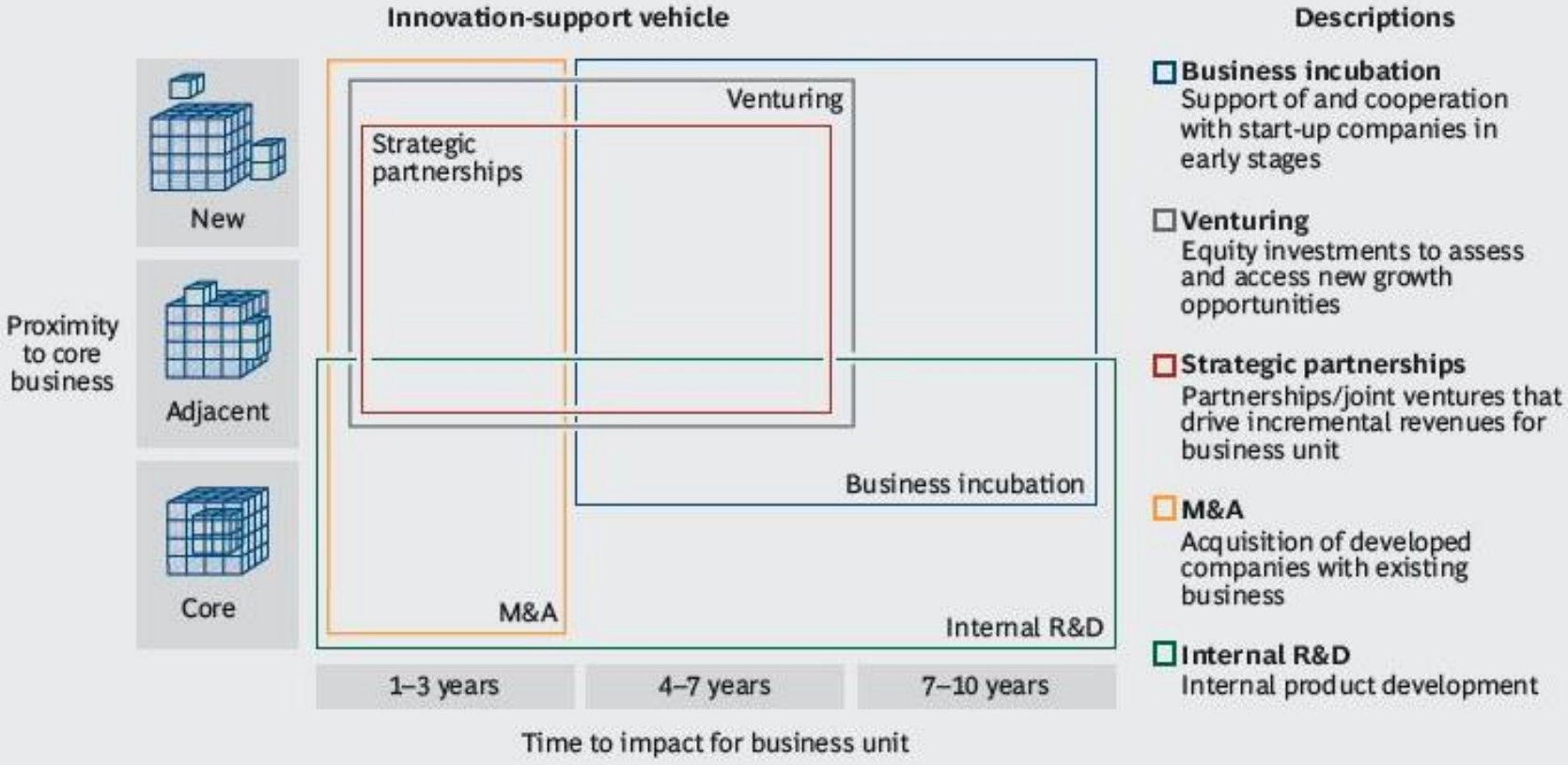
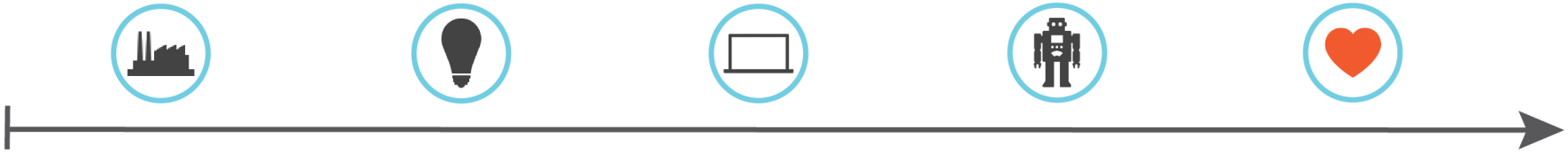
EXHIBIT 2 | By Employing Multiple Tools, Companies Gain a Holistic View of Growth Outside the Core



Source: BCG analysis.

INDUSTRIAL REVOLUTIONS



1ST

18-19th Century in Europe and North America, featuring steam engines

2ND

1870-1914, featuring steel, oil, electricity, and combustion engines

3RD

1980s Digital Revolution, featuring personal computers and the internet

4TH

21st Century advance of AI, big data, robotics, IoT, blockchain and crypto

5TH

Responsive 21st Century connection of innovation to purpose and inclusivity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