

# YOUR ORGANIZATION'S FUTURE OPERATING ENVIRONMENT

## RESEARCH

Toffler Associates recently conducted a study that surveyed global executives across government, academia, non-profit, aerospace, defense, science, and technology. With factoids from over 300 unique sources, our analysis of the connections between findings uncovered six major forces that are influencing industry's future operating environment.

Our factoids are representative of developments that have an impact and shape the future we will come to know. Analysis of our collection of factoids leads us to the conclusions of these forces of change. The factoids here are a representative sample.

### 1 SOCIETAL EVOLUTION

Societal attitudes and perceptions are informed by the sum of its knowledge, beliefs, art, laws, customs, and all other capabilities. Societal evolution enables the development and growth of new norms, as traditional components of a society's culture become obsolete.

1 Factoid of 242:

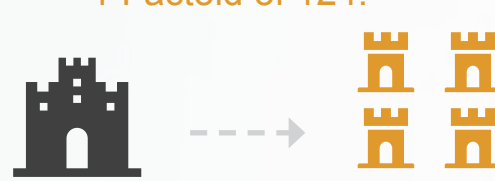


By 2060, **people live longer** making 80 the new 40 and 40 the new 20.<sup>1</sup>

### 2 POWER, WEALTH, AND INFLUENCE DYNAMICS

The interplay of individuals, governments, and organizations, willingly or unwillingly, transferring money, power, influence, knowledge, etc. has had a growing impact on industry. These dynamics are less linear, less centralized, more challenging to predict, and more fragmented.

1 Factoid of 124:



In 2030 there will be **no hegemonic force** but instead a handful of countries: US, Russia, China, Germany, India, and Japan.<sup>2</sup>

### 3 EXPLORATION, DEVELOPMENT, AND UTILIZATION OF RESOURCES

The development of resources expands beyond processing and refinement of physical resources and moves into the realm of human and machine co-creation of knowledge. Access to and effective utilization of resources by an organization will be critical to a company's survival and growth.

1 Factoid of 337:

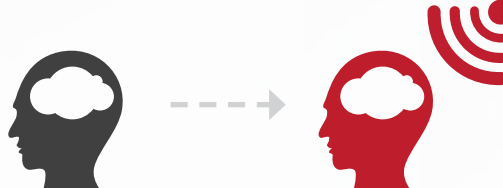


**Climate change** is projected to become the fastest growing driver of changes in biodiversity by 2050.<sup>3</sup>

### 4 INCREASING PACE OF INNOVATION

The pace of innovation and development of technology continues to grow along with the exponential growth of knowledge. Although knowledge continues to grow exponentially, the capability of our culture to absorb these changes struggles to keep pace. Our biggest barrier ahead will be the necessary changes in human behavior in the face of innovation.

1 Factoid of 382:

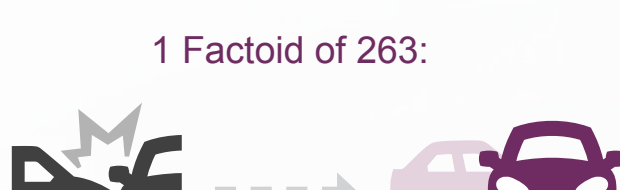


Consumer **Brain-Computer Interface** (BCI) devices will hit the shelves by the early 2040s.<sup>4</sup>

### 5 APPLICATION OF DATA

Society increasingly demands technology that demonstrates a direct impact on quality, efficiency, and effectiveness of life. Therefore, there is an increasing need for analytic tools that will enable the breadth of the connected environment and deliver capacity to analyze large amounts of data to support decision making. The value that once existed in the technical product has shifted to data collection, processing, and application.

1 Factoid of 263:

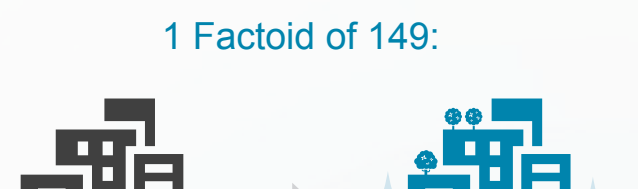


By 2050, 95% of all **fatal traffic accidents** have been eliminated globally and 3D printing technology will be used for **growing artificial organs**.<sup>5</sup>

### 6 TRANSFORMING INFRASTRUCTURE

The connection between what is traditionally considered infrastructure, people, sensors, and networks is not only increasing in volume, but also in complexity. This is further compounded by the need to balance the development of the new while simultaneously protecting the integrity of our aging, traditional structures.

1 Factoid of 149:



In 50 years, the majority of people will live in cities which will be increasingly more **integrated with nature and plants**. It will be standard for buildings to be covered in vegetation designed to filter out pollutants and retain CO2.<sup>6</sup>

**These six forces provide insight into what is causing change in your environment, for your organization, and what your organization needs to understand and plan for.**

**Consider these as you build your strategy:**

- Pace and impact of disruption to knowledge and technology
- Predictability of innovation
- How and with whom people are connecting
- Movement of information between people and things
- Value people assign to different information, resources, products, and services
- Public perception of sources or providers of information, resources, products, and services
- Level of trust in traditional and non-traditional institutions

**Questions you should be asking yourself to better plan for changes in your operating environment:**

1. What type of workforce will enable your success in the face of change?
2. How can you balance security (e.g. IP, cyber) with open collaboration and growth?
3. What capital investments can be made that can mitigate risk and address potential opportunities?
4. How can you engage your supply chain in times of rapid change?
5. How can you proactively understand customer needs and shape experience?

**Contact us to start a conversation!**

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Sources:

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