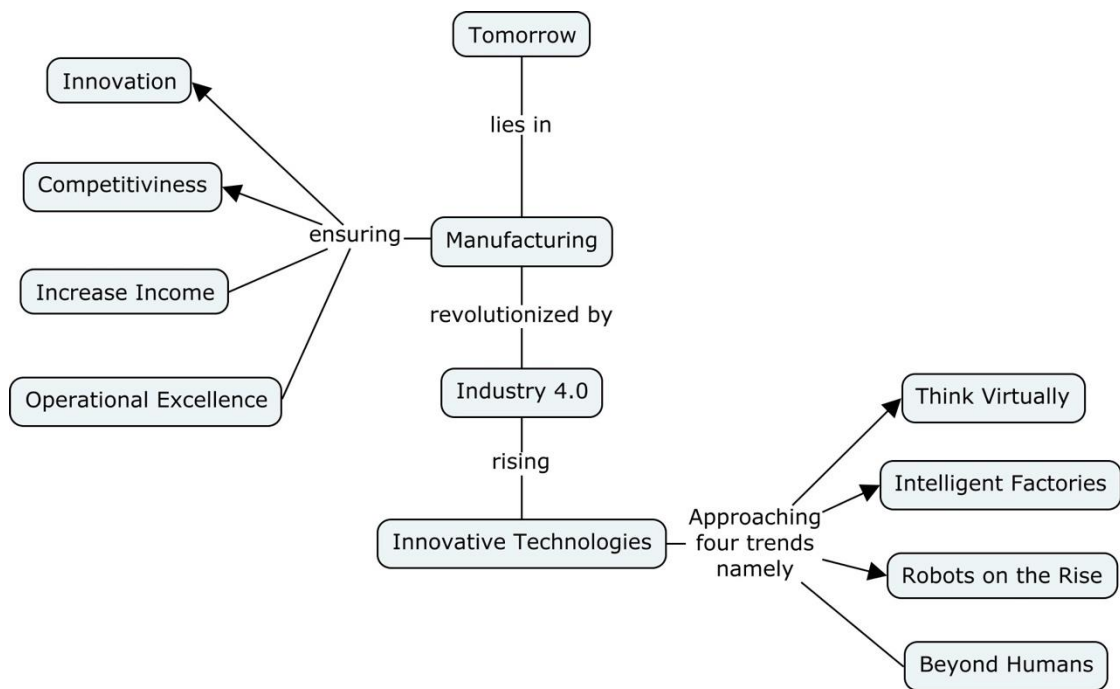


## Tomorrow



Tomorrow	What we expect and what is rising through manufacturing.
Manufacturing	Produce on a large scale using machinery and technology.
Innovation	A new method, idea, products over existing tools and machinery.
Competitiveness	The quality of being better than competitors of same nature.
Increase Income	Get more money for selling products or services.
Operational Excellence	The goal of organizations in order to be world class.
Industry 4.0	Manufacturing revolution powered by Innovative Technologies and based on Digital Revolution.
Innovative Technologies	Futuristic approaches of how technology will be applied on manufacturing.
Think Virtually	Virtual reality allowing the creation and test of products simulating the design process without wasting materials.
Intelligent Factories	Factories fulfilled with driving advancements by the investments in smart sensors, cloud computing, and machine learning.
Robots on the Rise	The future represents a much better manufacturing sector Increasing the number of robots to do non-repetitive tasks.
Beyond Humans	Use robots, 3D printing, Machine Learning and another kind of Innovative Technologies to achieve higher levels of accuracy and productivity beyond the human capabilities.

How can we ensure innovation, competitiveness, increased income and operational excellence?  
**The answer, surprisingly, lies in manufacturing.**

We are living revolution times and manufacturing appears to be a hot topic again, undergoing the industry's greatest change in more than 100 years.

So, our research looks forward to bright future of manufacturing, where the way we build and deliver the goods and products that fuel our economies and our lives will never be the same.

After the innovation failure that decreases productivity through the internet and its new services, we have now an emerging new revolution that combines manufacturing with a large innovation technology, presenting to our world the fourth industrial revolution.

We are now experiencing another industrial revolution, our fourth, built on the Digital Revolution, representing new ways in which technology becomes embedded within societies and even the human body.

The industrial revolution we're experiencing now, commonly referred to as **Fourth Industrial Revolution or Industry 4.0**, is powered by advancements that include smart manufacturing, robotics, artificial intelligence, nanotechnology, the Internet of Things (IoT), and more.

### **What to expect?**

Innovative Technologies are progressing in order stimulate and helping manufacturing. For instance, using robotics to do non-repetitive tasks and completing the workers is expected to achieve 25% of automation tasks, which lead to a growth around 20%. By 2019, it is prospective 50% of manufacturers have modernized their logistic network to leverage 3D printing, robotics, and cognitive computing to support innovative strategies.

In the future, is expected the factories will be smaller and agile, in order to get the customers closer. That will change the current trade flows, transforming East-to-West to Regional way, East-East and West-West. With that, China and other emerging countries won't be any more the world factories. Helping with preventing the issue related with the current model, since those countries will be richer and more expensive to produce. As what occurred on 2015, when Brazil and France have the same producing costs.

With In the next five years, the consumers in China inject more growth than the top 5 European markets together.

The expectation on the USA related with the employment is to increase on the next 5 five years, on 70% of industries, with 31% increasing 1-5% of the current number. But 10 % are expecting to decrease 1-5% of the actual number of employees. Those numbers show the workers should not be afraid of losing their jobs. Innovative Technologies are the complement to, not a replacement for, human workers, instead, it will be created more specialized work for maintenance and future upgrades, we'll be able to increase our output and increase the productivity in order to make the economy grow.

Economic prospects will be characterized by even more extensive trade and movement of goods, faster information transfer and data analysis, and new technology that helps manufacturers maximize customer value and profitability.