



making complexity simple

The outlook

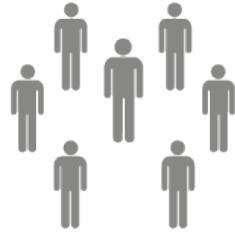
The image is a composite of two photographs. On the left, a large, bright, orange-yellow explosion or firework is shown against a dark, star-filled background. On the right, a view of Earth from space is shown, with the planet's curvature and city lights visible.

The world is
changing...

Megatrends



Urbanization



Demographic and
social changes



Scarcity of resources



Digital revolution



Globalization 2.0
Market volatility

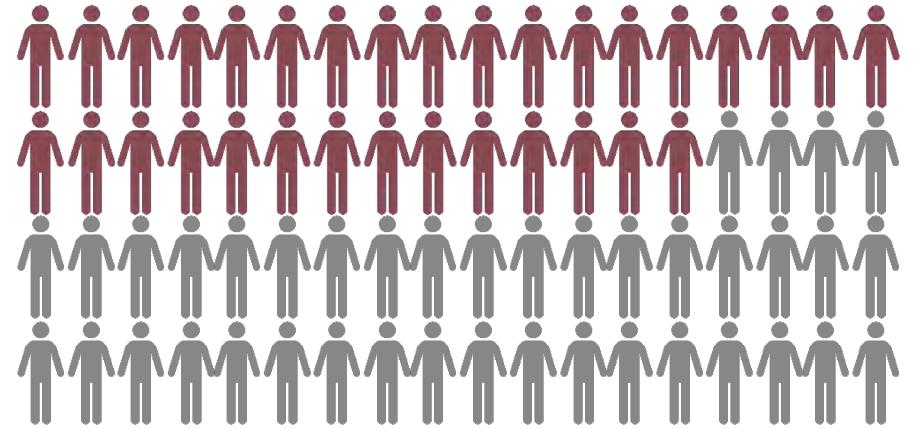
Urbanization



Urbanization

Urban population is expected
to increase from 50% to 72%
of the overall population by 2050

Source: UN report on World Population Ageing 1950–2050



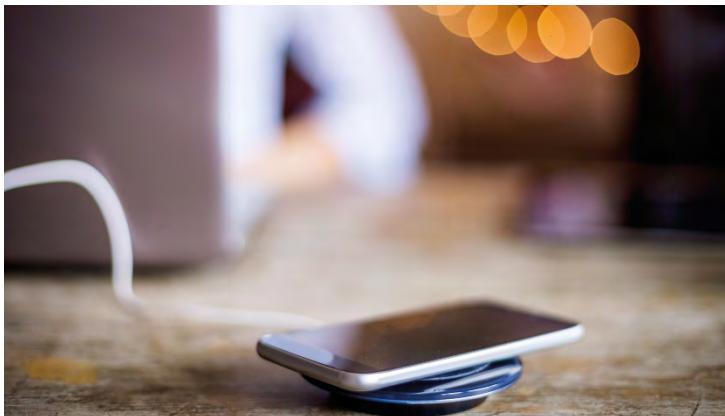
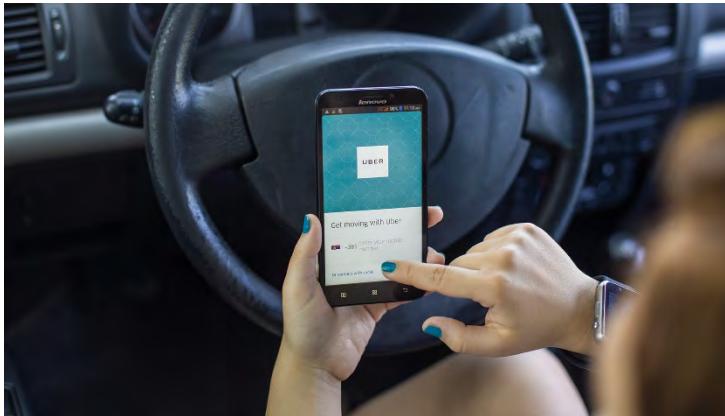
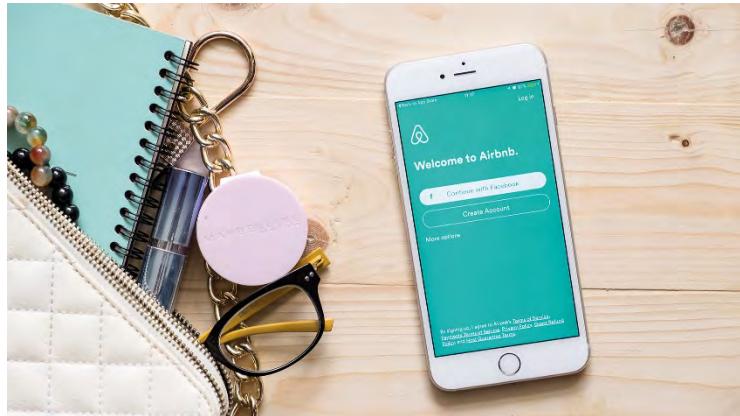
Urbanization



Urbanization



The world is changing - Digitalisation



Generation Z

Digital natives



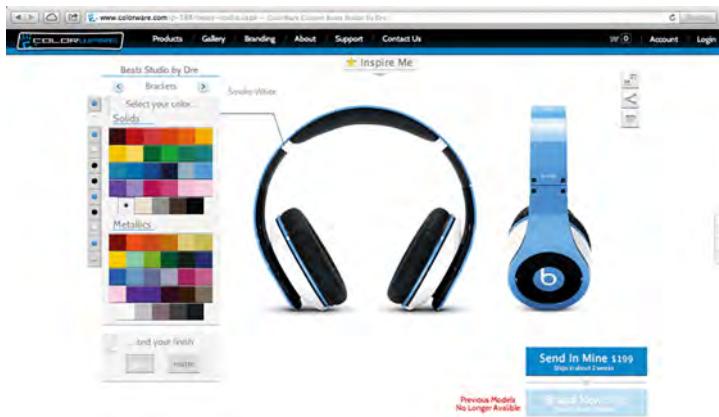
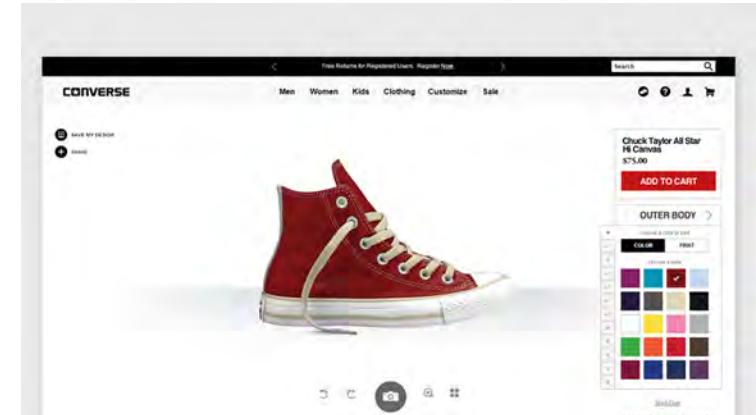
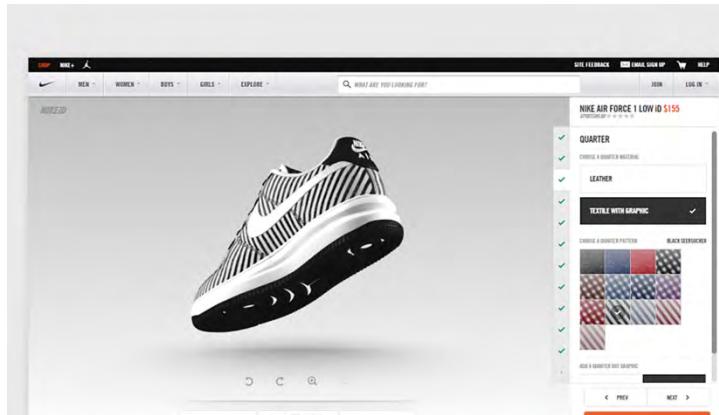
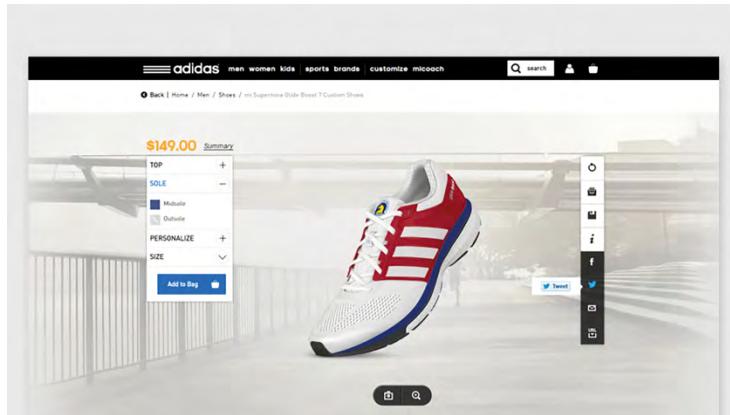
The world is changing - Demographics



Changing consumer behavior



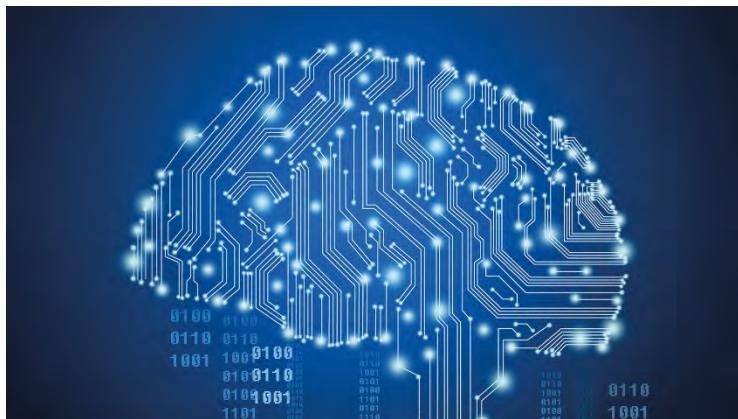
Changing customer requirements

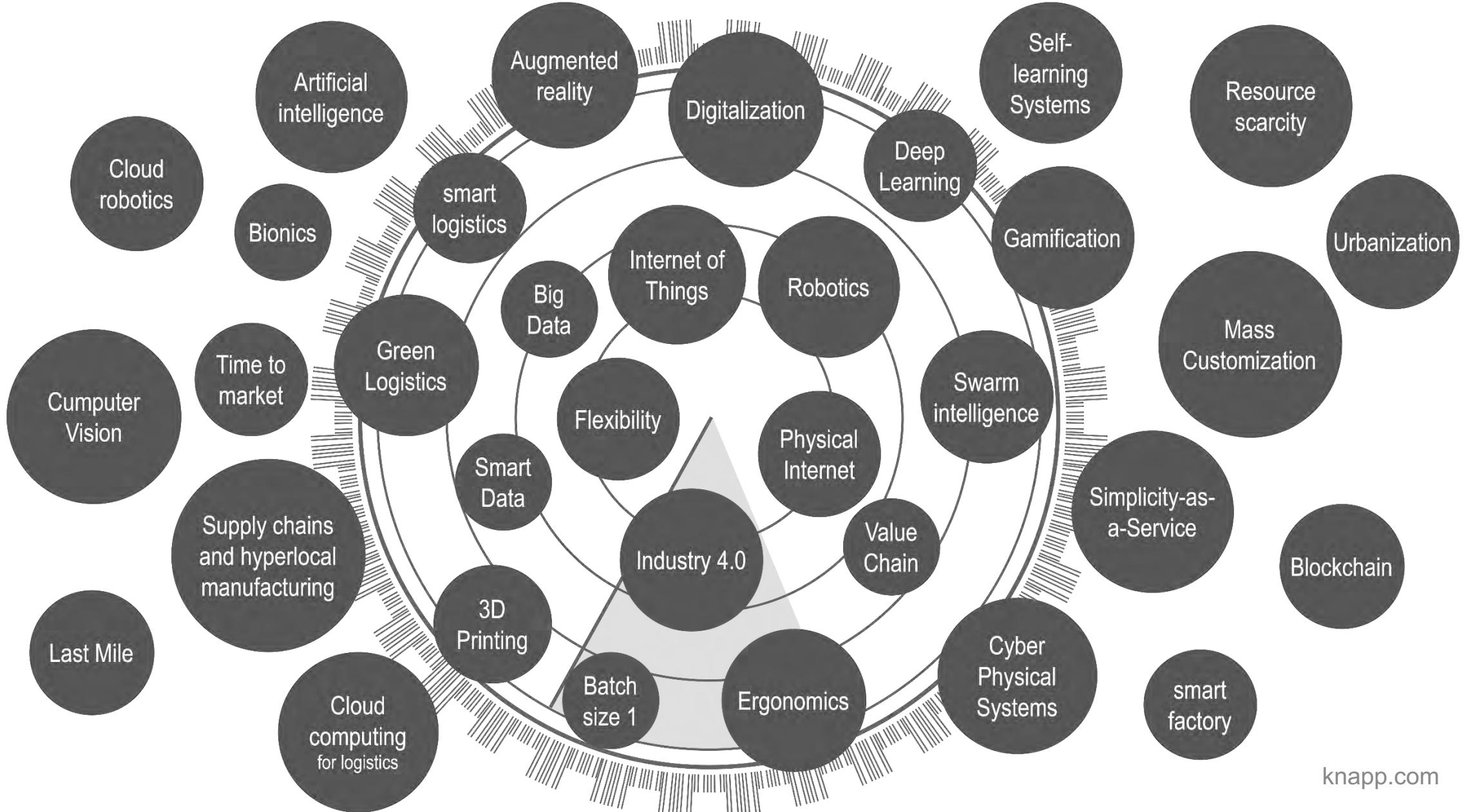


Changing technologies



Changing technologies







Supply Chain is
changing...

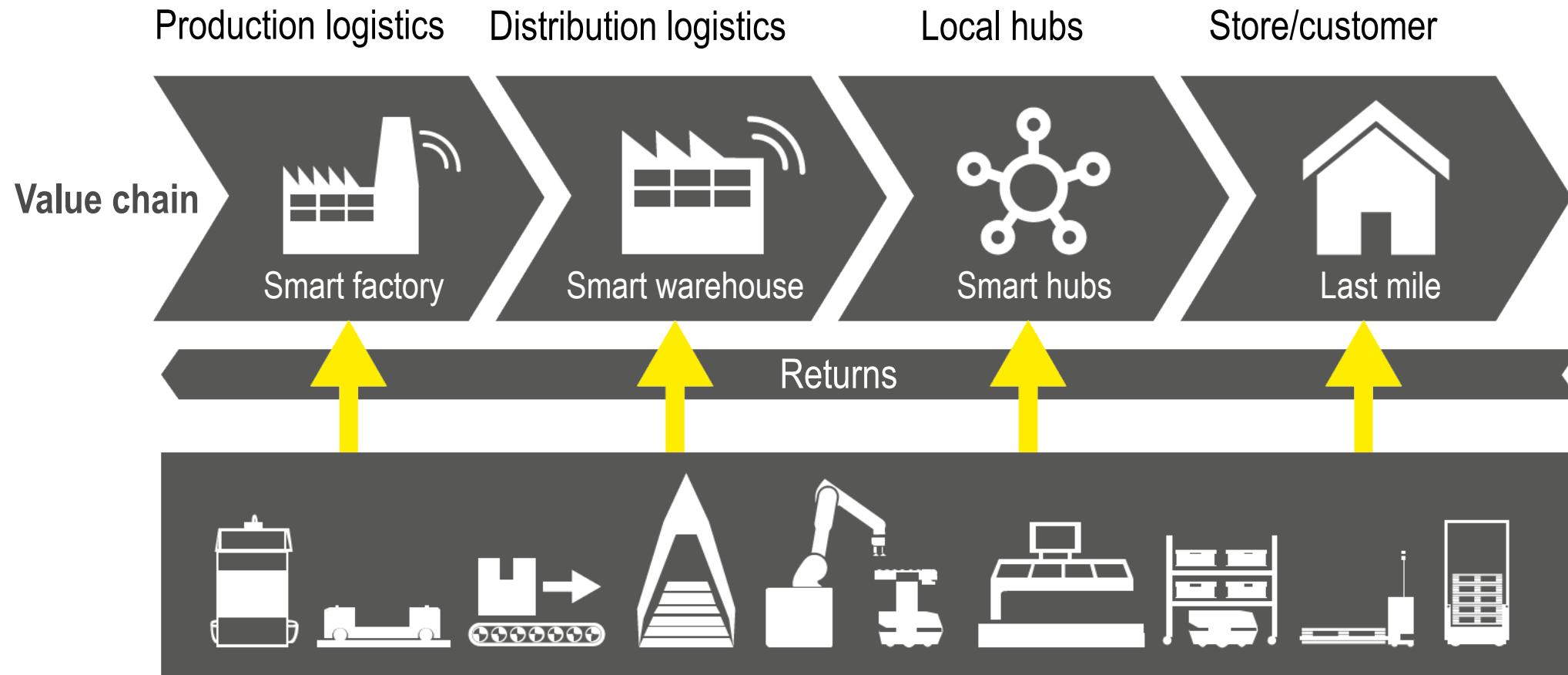
How can we handle
this change?

How can we be
on top of this change?

How can we ensure future success?

Invest in the RIGHT
technology...

Smart logistics – value chain





Listen

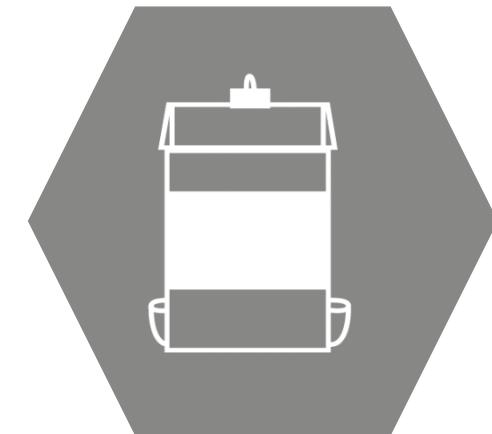
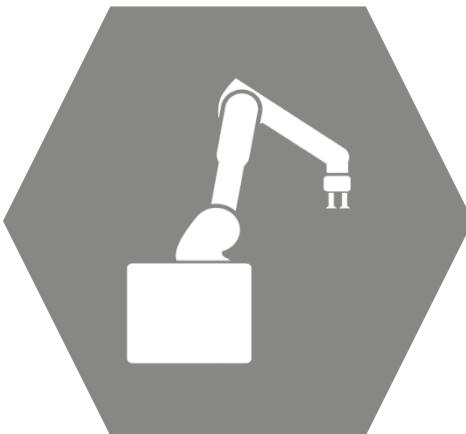
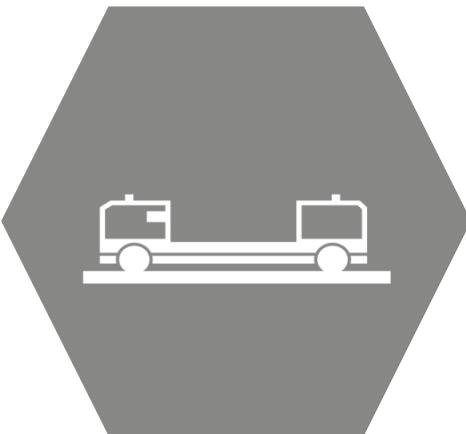
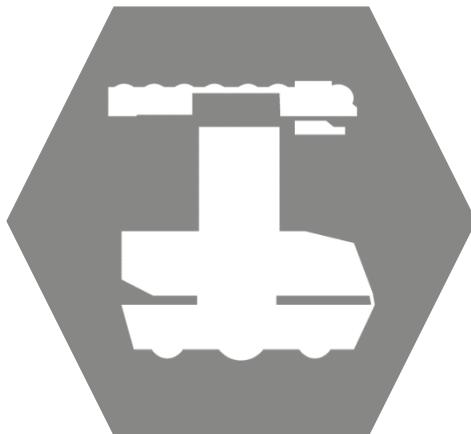
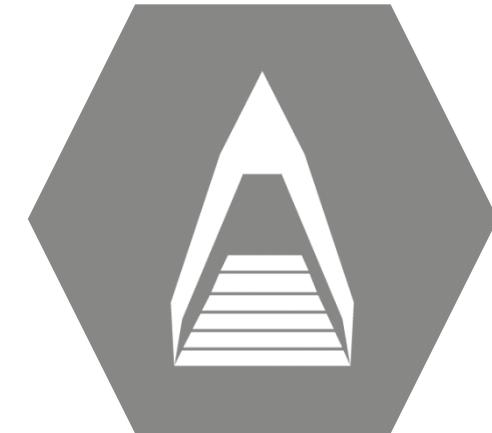
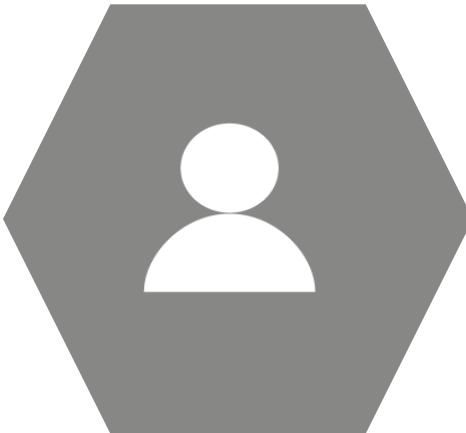
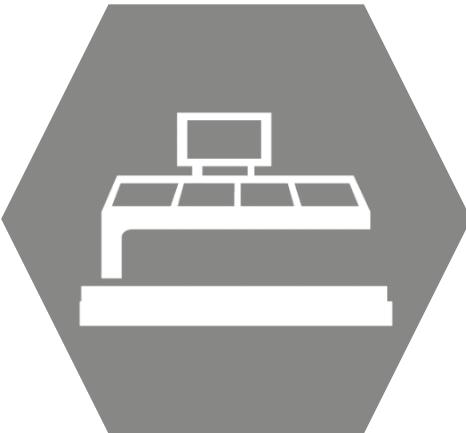
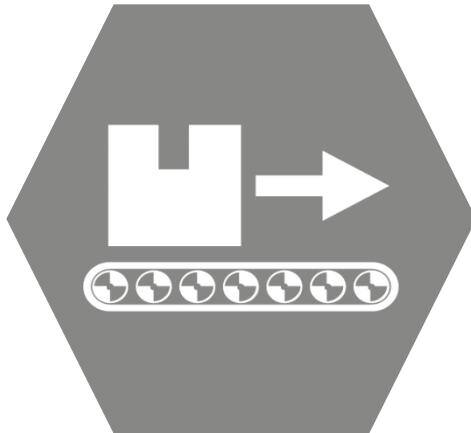


Understand



Act

Smart Automation / MHE moduls



Knapp highly automated systems



Pick-it-Easy work stations



Robotics



making complexity simple

KNAPP

Pick-it-Easy Robot



Fully automated bin picking



Dynamic operation



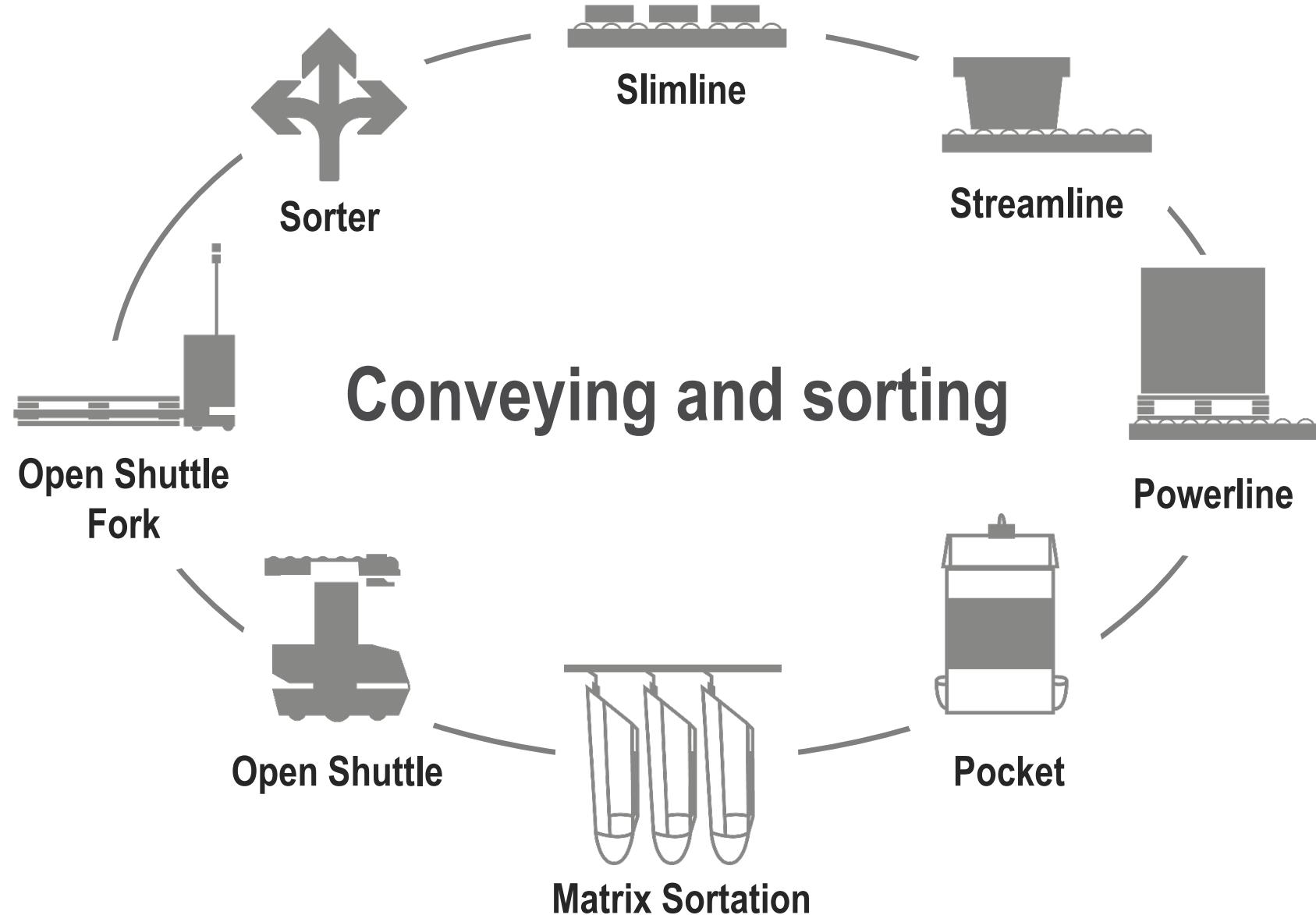
Machine learning

Pick-it-Easy Robot

► PLAY



Pick-it-Easy Robot



Streamline / Powerline



Streamline



Powerline

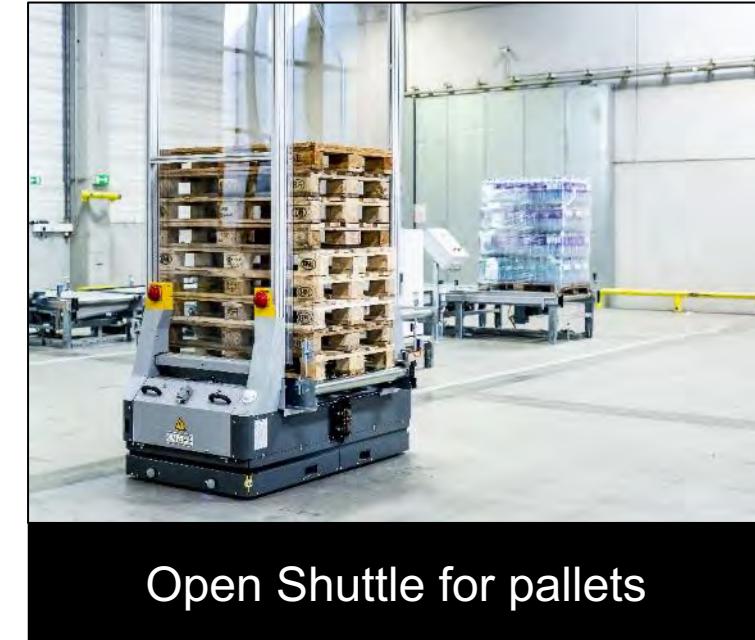
Open Shuttles



Open Shuttle



Open Shuttle Fork



Open Shuttle for pallets

Pocket system



Pick-it-Easy Robot & Pocket System



making complexity simple

The outlook is not all about
the big stuff...

Finally we have some handy tools...



Innovation is in our DNA



1952

Engineer Günter Knapp establishes his sole proprietorship.

1950s

Foundation building

Conveyors get things going

1960s

Vision
Autopicker

for pharmaceutical wholesalers. He holds onto the idea, even though the market is not yet ready.

Products:
Goods lifts,
Paternosters,
Lifting systems,
Belt conveyors

The conveyor belts already have either a mechanical-electrical or electromagnetic

First product:

Oil burner

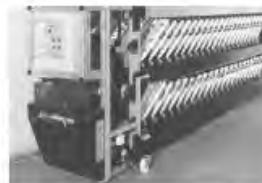
Oil burners, which at the time came from the USA, were not suited to the thicker Austrian heating oil. Günter Knapp built an oil burner with a larger atomizing nozzle. Günter Knapp obtained his first patent for this product.

Location: Graz, Austria
Industry: Mechanical engineering
Employees: 3

Further products:

Automatic doughnut-filling machine
Milk pump
Lifts
Vertical lift conveyor

1st Patent



Why the pharmaceutical sector?

One often needs a bit of luck, a little intuition and the courage to make the right decision.

Günter Knapp recognizes the potential for automation in pharmaceutical wholesaling: the medicine cartons are easily automated, transit times are fast and the demand for rapidly supplied medicines is increasing.

Driven by the spirit of invention

First customers in the region

Stiefelkönig,
Kastner & Ohler,
Herba Chemosan

Green light for conveyor systems

Günter Knapp builds a simple conveyor system for the Austrian pharmaceutical wholesaler, Herba Chemosan, and decides to increasingly concentrate on the pharmaceutical sector.

1970s

Going International

Pharmaceutical market booms – first order abroad
Pharmaceutical wholesaler Krey & Figener

Installation of a conveyor system and a double paternoster in Düsseldorf and Krefeld

License:
1973: Professional installation of electrical high-voltage systems and installations

Specialization in the pharmaceutical sector requires a great deal of research and development. The fast dispatch of articles in pharmaceutical wholesaling becomes more and more important – the electronic components must be significantly improved.

1978 sees the first successful installation of computers. Microprocessor units at individual stations in the conveyor system assume control of the containers. This is the cornerstone for fast, accurate order processing.



1980s

The EDP age is on the rise

Marker

Italy, France, Belgium, the Netherlands, Scandinavia, Spain, Portugal, South America

Specialist area:
pharmaceutical sector

Location: Graz, Austria
Company: KNAPP-Fördertechnik GesmbH & Co KG
Employees: 15
Company cafeteria: 1979

Development:
Autopicker

Günter Knapp at last dusts off his idea for autopickers, because the market is now ready. The control system is possible using microprocessors. The autopicker is soon adapted to other sectors such as textiles, cosmetics and books.

Location: Graz, Austria
Company name: KNAPP Logistik Automation GmbH
Production halls: 1,000 m²
Office building and cafeteria: 400 m²
Employees: 1981: 74 | 1986: 105

Innovation is in our DNA



Smart worker



Future



Smart production



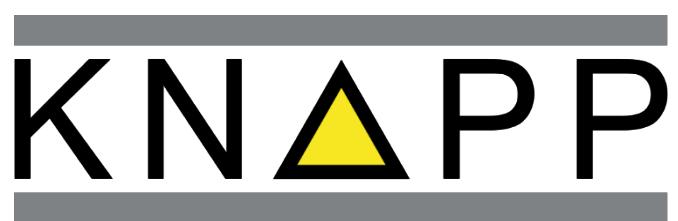
Smart data



Smart warehouse



Success



making complexity simple

Thank you.

Vielen Dank.

Merci beaucoup.

Muchas gracias.

Mille grazie.

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