



Master Programmes Opening Ceremony A.Y. 2017/2018, 17th January 2017

Today's shepherds and what will happen to you a year from today

The importance of life-long learning in the present age

Gioia Ghezzi, Ferrovie dello Stato Italiane Chair

A quick overview of my experience



ACADEMIC
PRESS

London
Business
School

McKinsey & Company

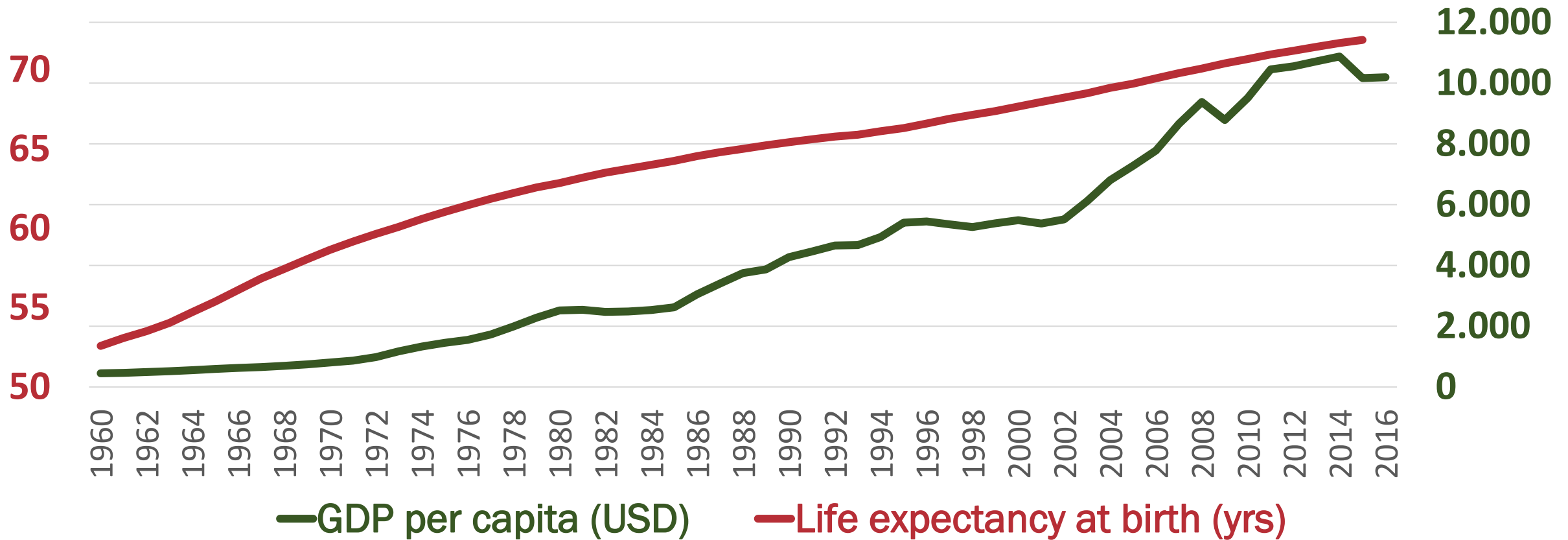


Willis
Towers
Watson



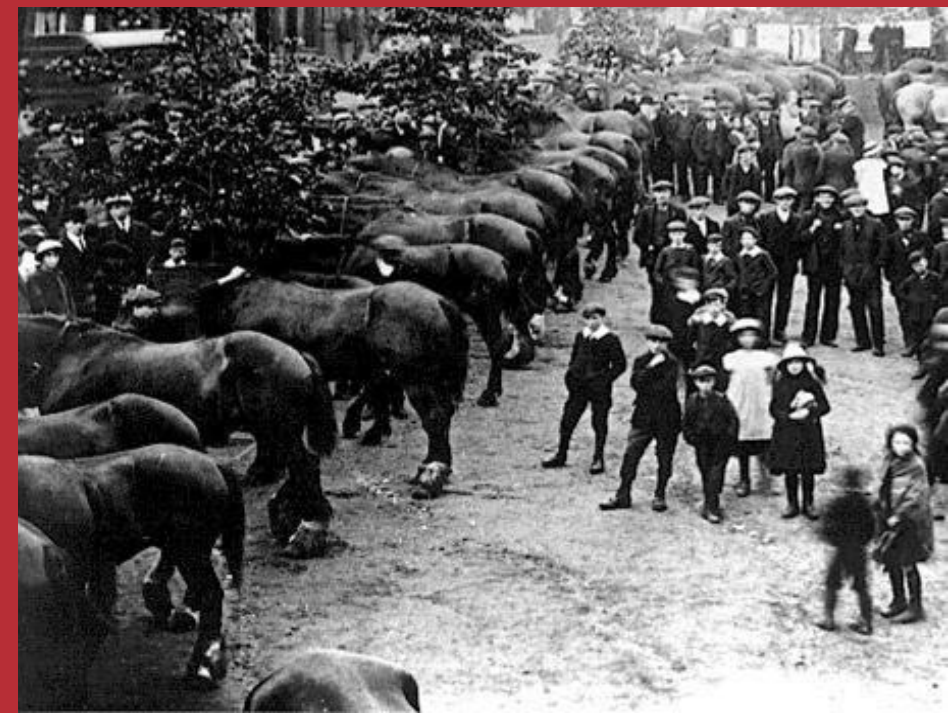
We live in an age of accelerating technological, medical and scientific achievements, which provide new and better answers to human needs

Global GDP per capita ('17 USD) and life expectancy at birth since 1960



Source: World Bank

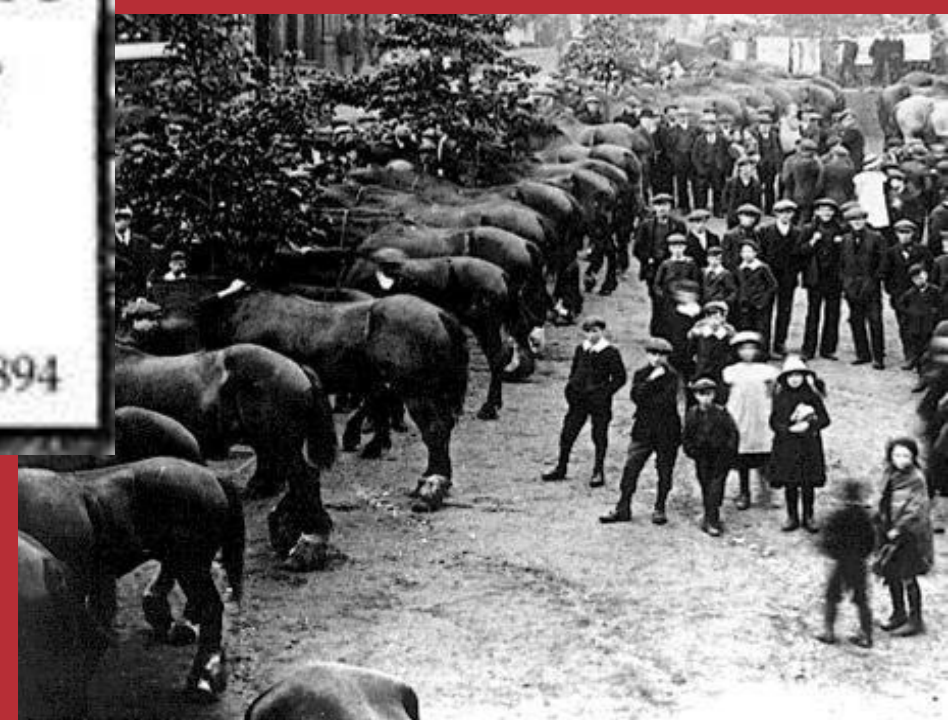
At the end of the 19th century, major cities were living an actual emergency that technology was unable to solve...



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“In 50 years, every street in London will be buried under nine feet of manure.”

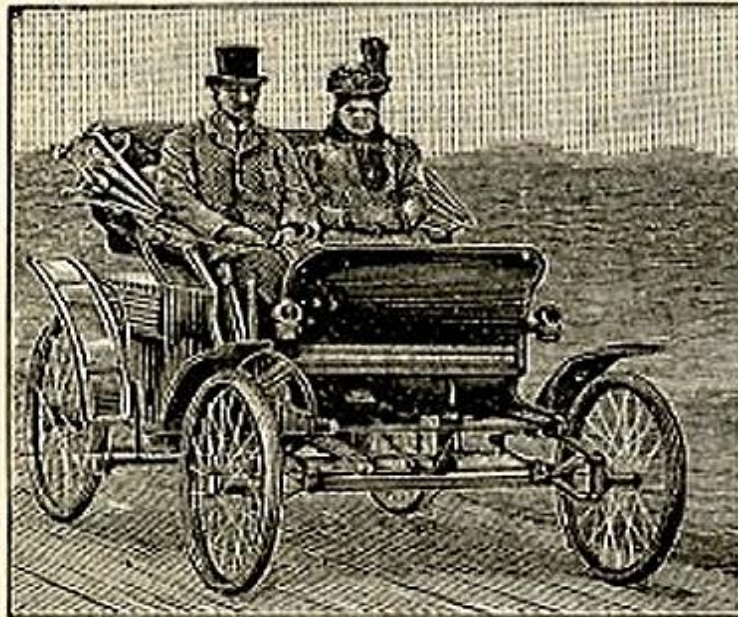
Times of London, 1894



... until a cleaner (!), safer and more comfortable mean of transport came in: the first “motor carriages”




DISPENSE WITH A HORSE



and save the expense, care and anxiety of keeping it. To run a motor carriage costs about $\frac{1}{2}$ cent a mile.

THE WINTON MOTOR CARRIAGE

is the best vehicle of its kind that is made. It is handsomely, strongly and yet lightly constructed and elegantly finished. Easily managed. Speed from 3 to 20 miles an hour. The hydrocarbon motor is simple and powerful. No odor, no vibration. Suspension Wire Wheels. Pneumatic Tires. Ball Bearings.  Send for Catalogue.

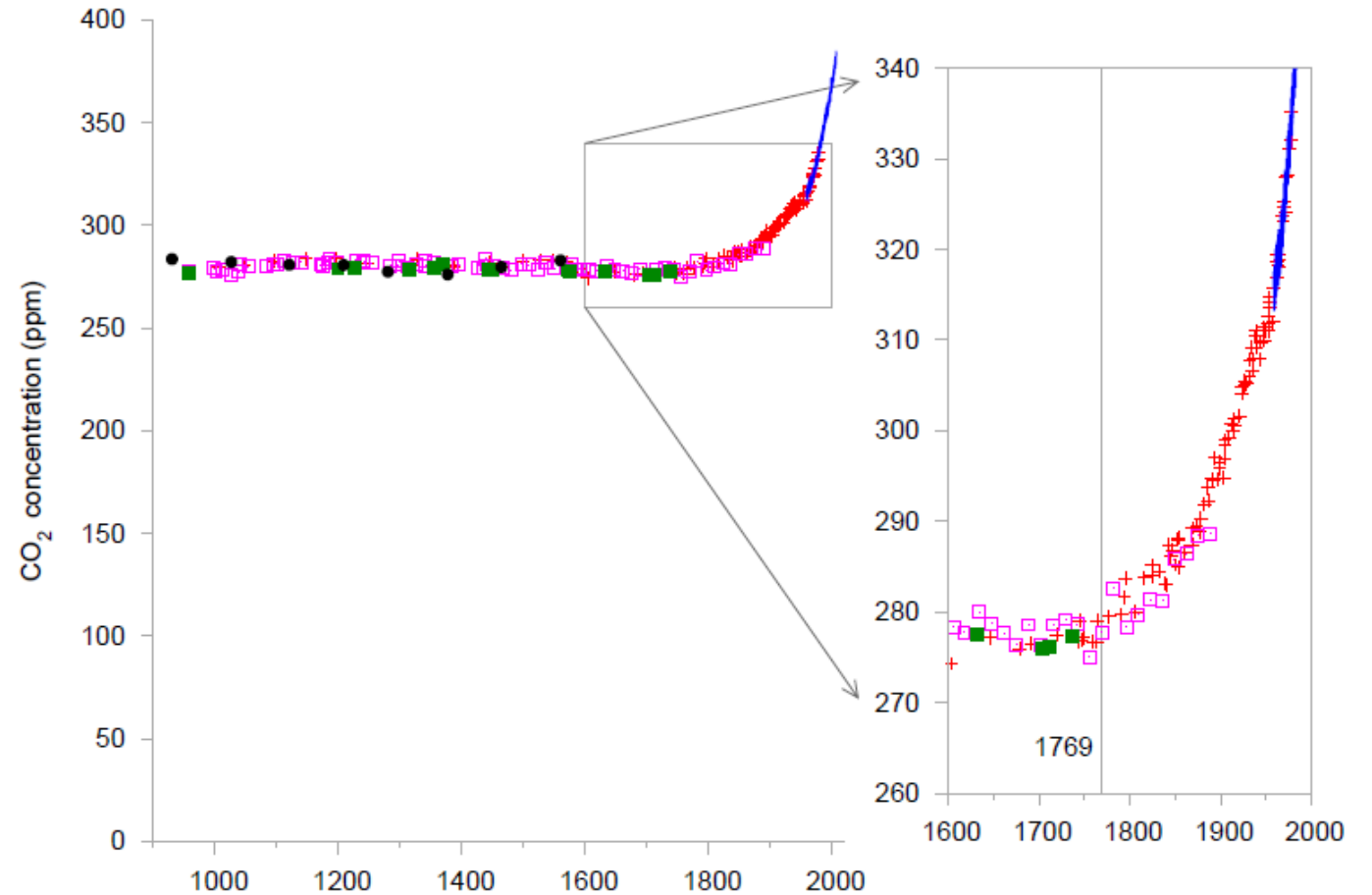
Price \$1,000. No Agents.

THE WINTON MOTOR CARRIAGE CO., Cleveland, Ohio.

Unfortunately, after a few decades, the solution has become an issue itself and new technologies are needed



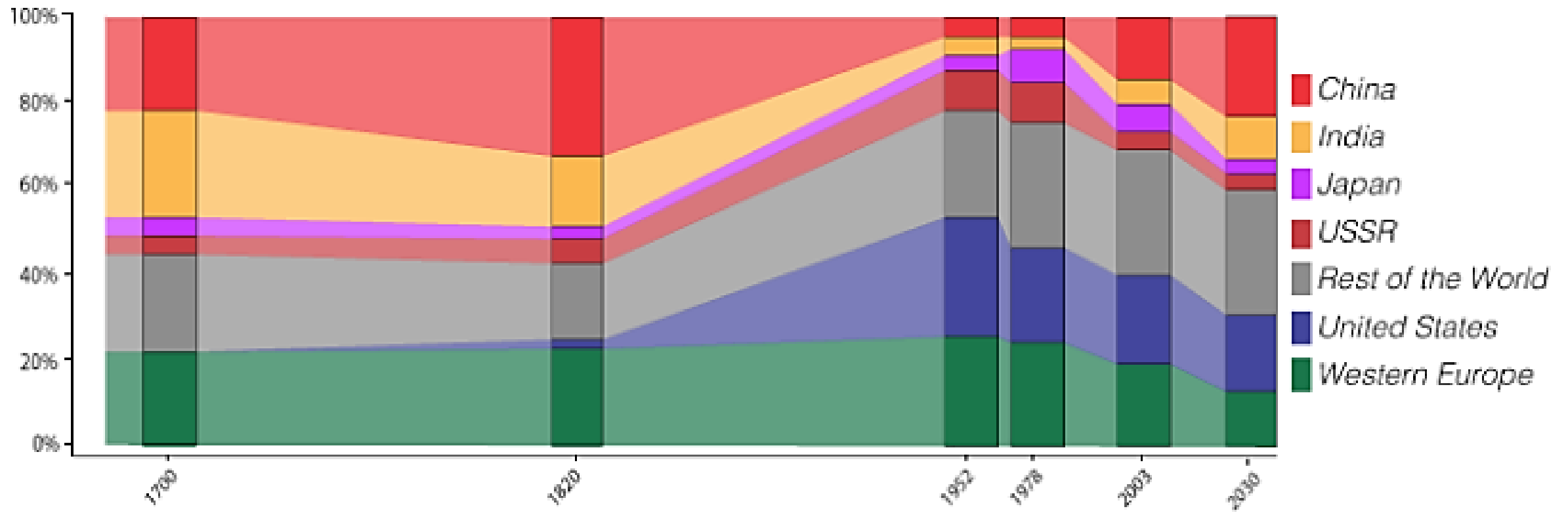
CO₂ concentration (ppm) (1000 AD -)



Source: David JC MacKay 2009..

Fostering technological innovation, together with supporting and attracting talented people and innovative companies, are (or should be) central points for the political agendas in advanced countries

Share of world GDP (%of world total), 1700 – 2030



Data source: World Economic Forum, 2016

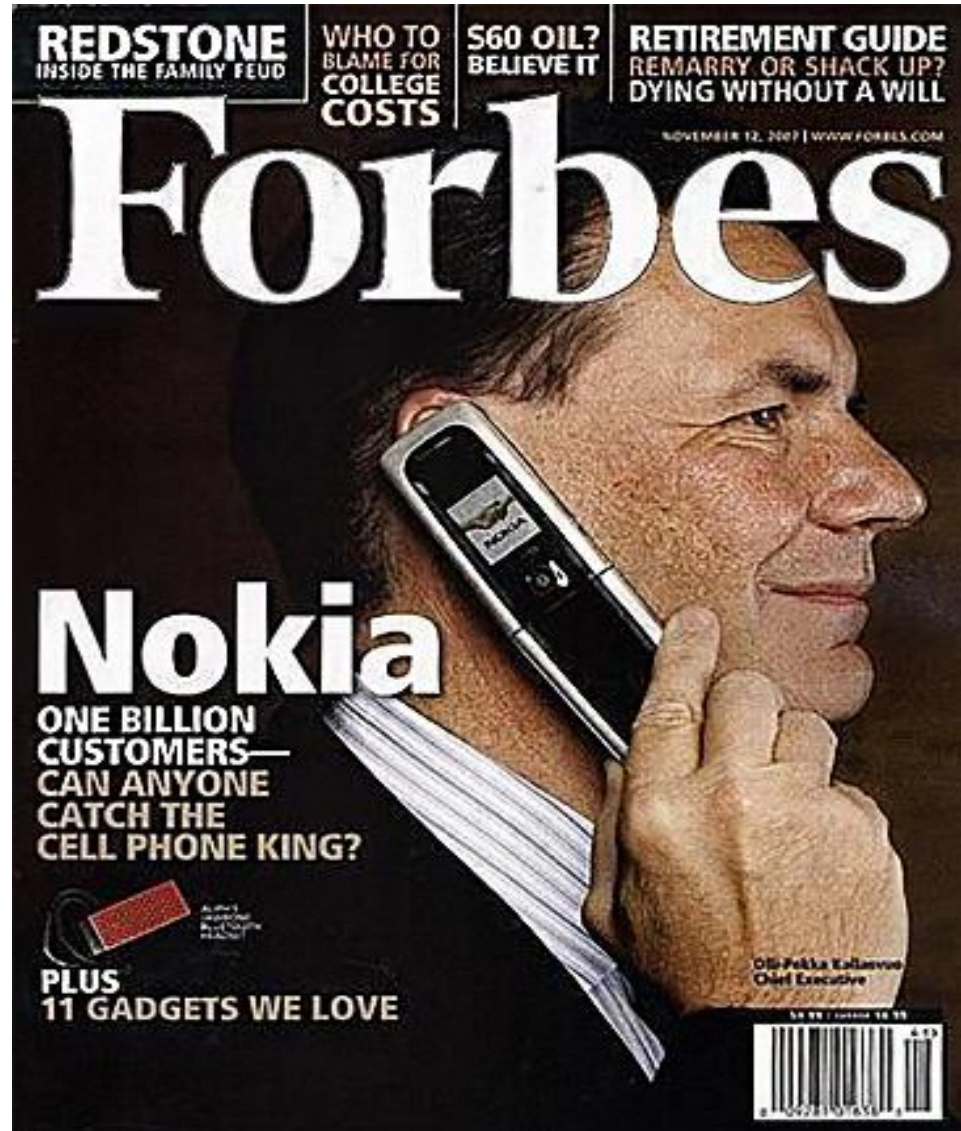
In a context of global competition, for regions and single countries it is crucial to keep the pace of innovation

2017 European Innovation Scoreboard - European Commission

- Innovation Leaders
- Strong Innovators
- Moderate Innovators
- Modest Innovators



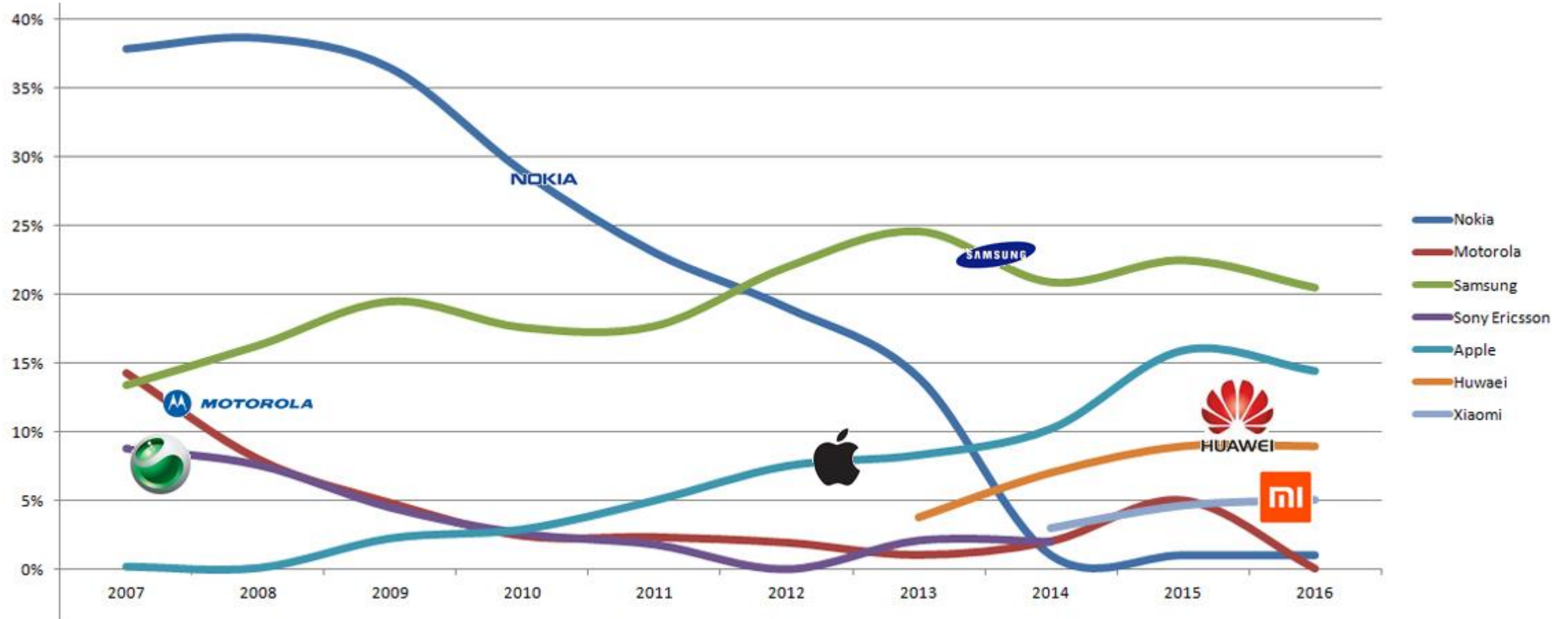
Dealing with technology, automation and digitalisation is also a key issue for companies' CEOs, in all sectors



*Forbes Magazine Cover
November 2007*

Dealing with technology, automation and digitalisation is also a key issue for companies' CEOs, in all sectors

Smartphone market share by brand 2007-2016



Source: <https://www.telephonesonline.co.uk>

On the one side, technology has made some particular jobs unnecessary...



...and, on the other side, technology has created new workplaces

Jobs that didn't exist 10 years ago

App developer

Driverless car engineer

Big data analyst/data scientist

Wellbeing coach

Offshore wind farm engineer

Social Media Manager

Uber driver

Podcast Producer

Telemedicine Physician

Sustainability manager

Cloud computing specialist

Search Engine Optimization (SEO) Analyst

Drone operators

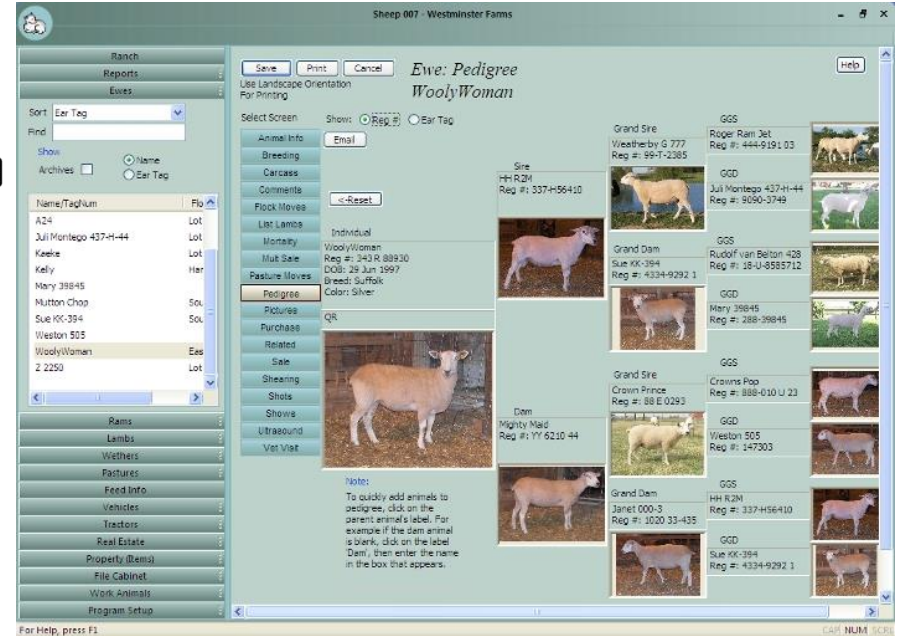
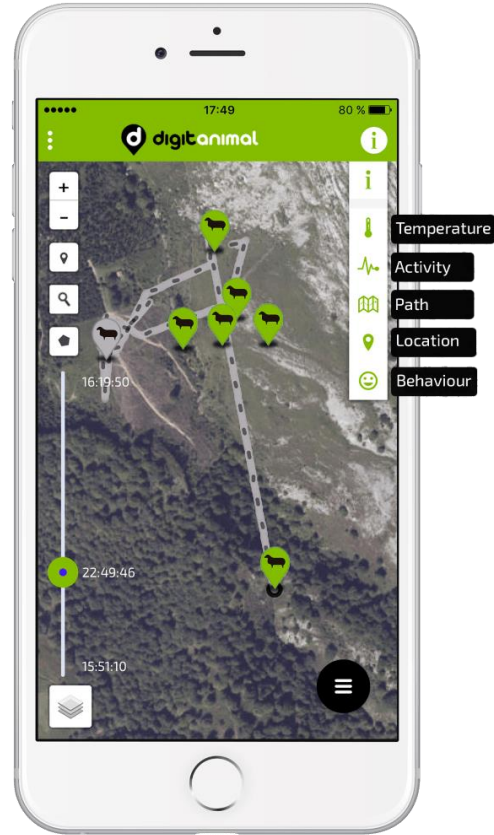
YouTube content creator

Source: World Economic Forum

We still need shepherds...



...but technologies have determined substantial changes in their job



Be prepared for a lifelong learning journey



David Parkins

Source: *The Economist*, 14 January 2017

*«Considerate la vostra semenza:
fatti non foste a viver come bruti,
ma per seguir virtute e canoscenza»*