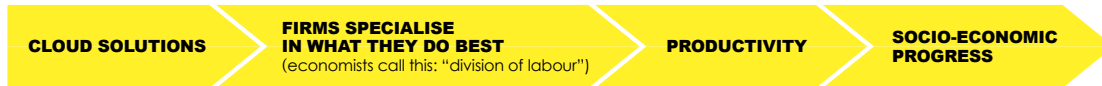


GOOGLE'S EUROPEAN DIGITAL INFRASTRUCTURES

CLOUD & DIGITAL TRANSFORMATION

- The Cloud is a productivity technology, allowing firms to specialise and leverage what they are best at.
- The increased productivity can then bring benefits to firms and consumers, while enabling governments and public bodies to serve its citizens better.
- However, cloud solutions can only work efficiently and deliver the fullest analytical possibilities if supported by advanced, well connected and sustainable digital infrastructures.



DATA CENTRES: KEY PILLAR OF DIGITAL INFRASTRUCTURES

Google is supporting the growing demand for data driven services.

It has invested in European digital infrastructures with but not limited to, 6 hyperscale high efficiency data centres, a connectivity network linking up European cities and countries to each other and to the world, as well as renewable energy to power the services that consumers, firms demand every day.

From 2007-2018, Google has invested **EUR 6.9 billion** in European data centres and related infrastructure investments, which has supported:

- economic activity in Europe of EUR 8.8 billion GDP
- 9,600 jobs per year on average across a wide set of European industries.

The majority of these jobs are to be found primarily within:



Retail trade



Transport



Hotels / restaurants



Real estate



Legal accounting



Employment activities

By 2021, Google will have invested around **EUR 11.9 billion** in European data centre and related infrastructures.

Summing up realised effects and the forecast based on committed investments, by 2021 Google will have supported a total of **EUR 15.2 billion** of economic activity across Europe – corresponding to **13,100 jobs (FTE)** per year on average.



CONNECTIVITY: BINDING EUROPE AND THE WORLD TOGETHER

Network connectivity is a key area of focus for Google's infrastructural efforts, due to the importance of the back-bone of the internet, linking data centres all the way to the exchange points where retail telecommunications companies take over, and serve end users such as consumers and firms.

Google's connectivity network past and committed expenditure in Europe is expected to reach

EUR 2.9 billion, invested in 2007 – 2020. This is yielding a supported:

■ economic activity amounting to EUR 3.8 billion total for the period 2007-2020

■ 3,900 jobs per year on average across the connectivity value chain and a wide set of European industries



ENERGY EFFICIENCY AND RENEWABLES' INVESTMENTS

While storing and processing data requires energy, the solutions that Google has introduced brings opportunities to increase the energy efficiency by which data is handled.

Since 2017, Google has achieved its target of matching 100% of all its data centres' and offices with purchases of renewable energy.

100%

In doing so, Google has developed the largest portfolio worldwide of corporate renewable Power Procurement Agreements (PPA), by signing

24 PPA

24 PPA deals with renewable energy developers across Europe;

1.7 GW

totalling almost 1.7 GW of wind and solar power capacity across Europe.



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