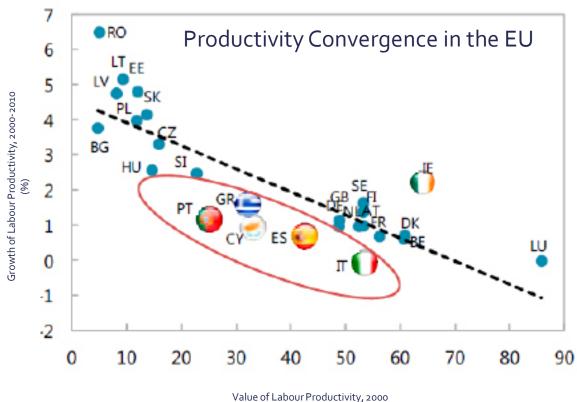
CHANGING INNOVATION & GROWTH PARADIGMS IN PORTUGAL

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PRODUCTIVITY REMAINS "THE CHALLENGE"



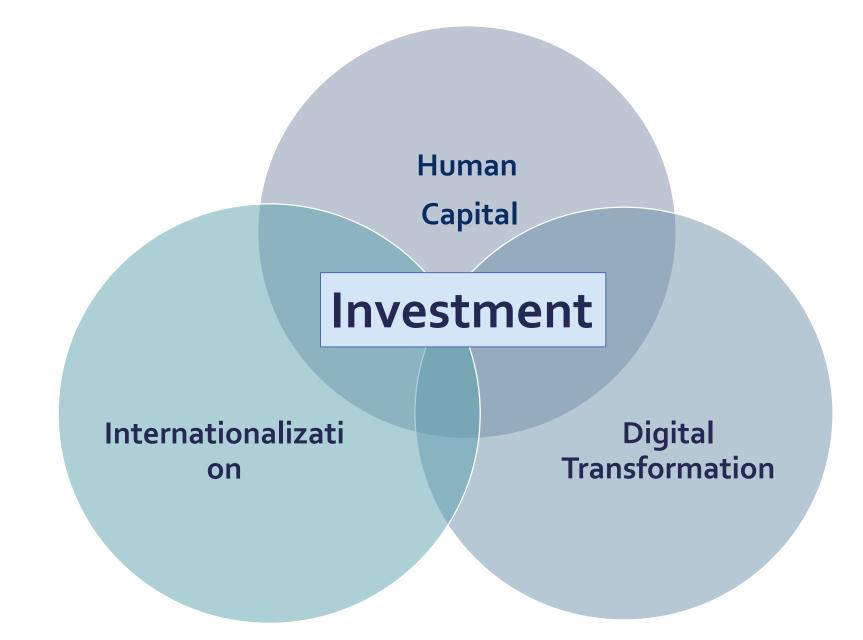


Contribution to Growth: 1,88% **Productivity And Employment** 2,37% 2,44% 0,08% 1,10% 0,98% 0,98% 0,69% 1980-84 1985-89 2015-17 1990-94 1995-99 2000-04 20 1,74% -0,04% 3,77% 1,73% -0,29% -0,09% -0,68% -2,21% Source: Banco de Portugal, 2019.

Productivity (GDP/Labour) Labour (ELF)

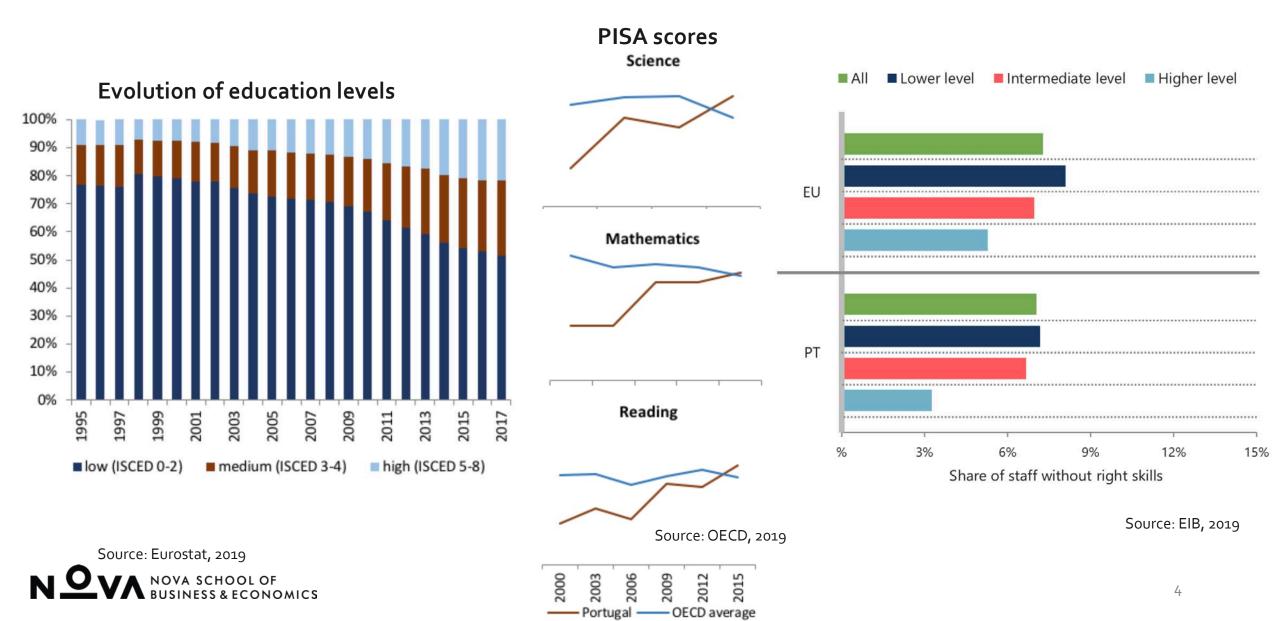
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Source: AMECO and IMF, 2010.





QUALIFICATIONS AND SKILLS PORTUGAL



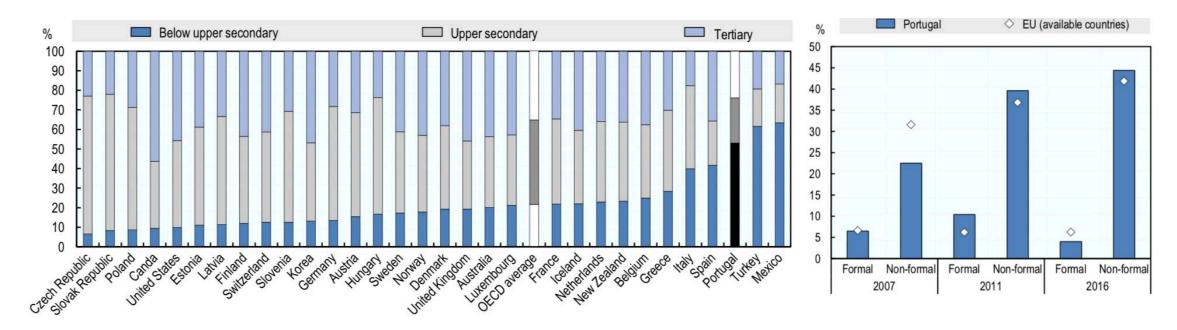
ADULT EDUCATION IN PORTUGAL

A long way to go...

Education attainment of adults (25-64 year-olds) in Portugal, 2016

but catching up

Participation rate (last 12 months), by type of education and training



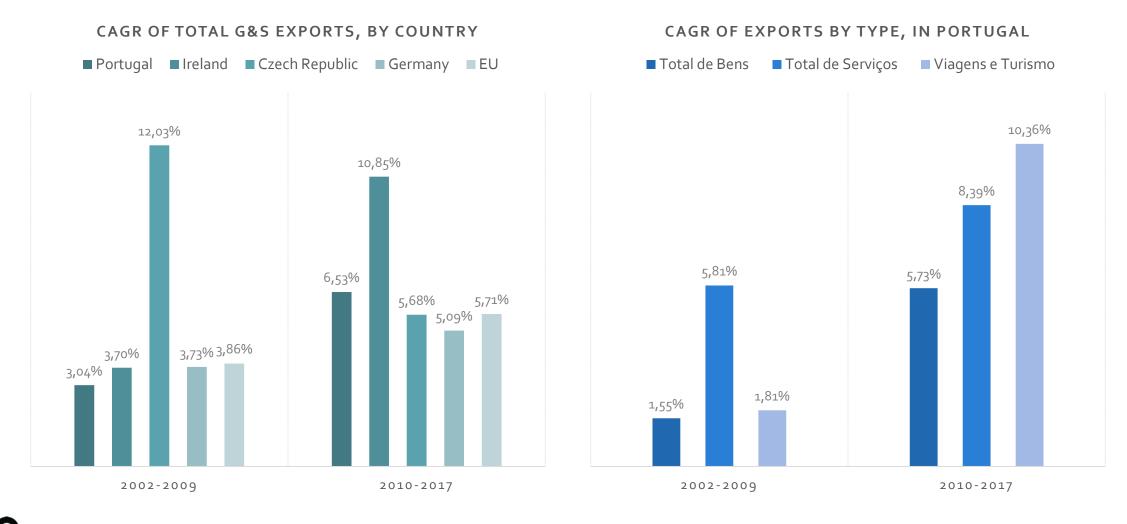
Source: OECD, 2019



Challenges

- Technical Skills and Skills of the Future in Higher Education
- Retraining of Adults for Digital Challenges
 - Funding and Institutions

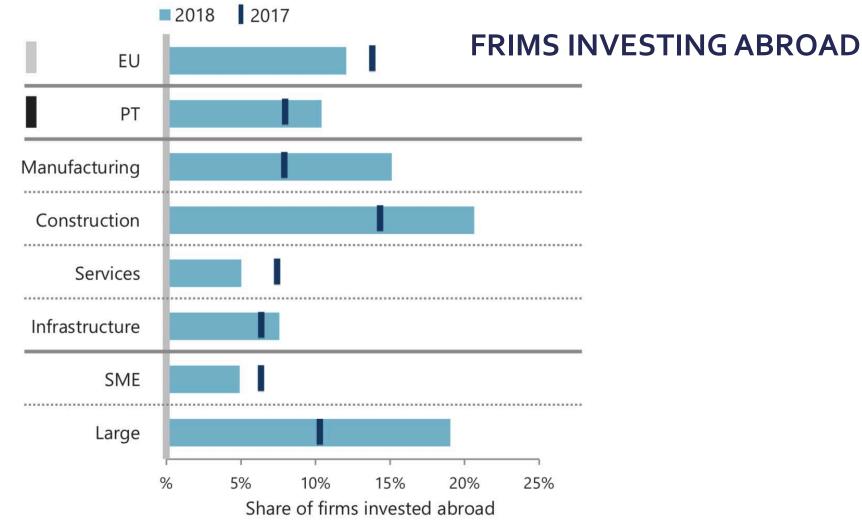
PORTUGAL SLOWLY CATCHING UP ON INTERNATIONALIZATION



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Source: Eurostat, 2019.

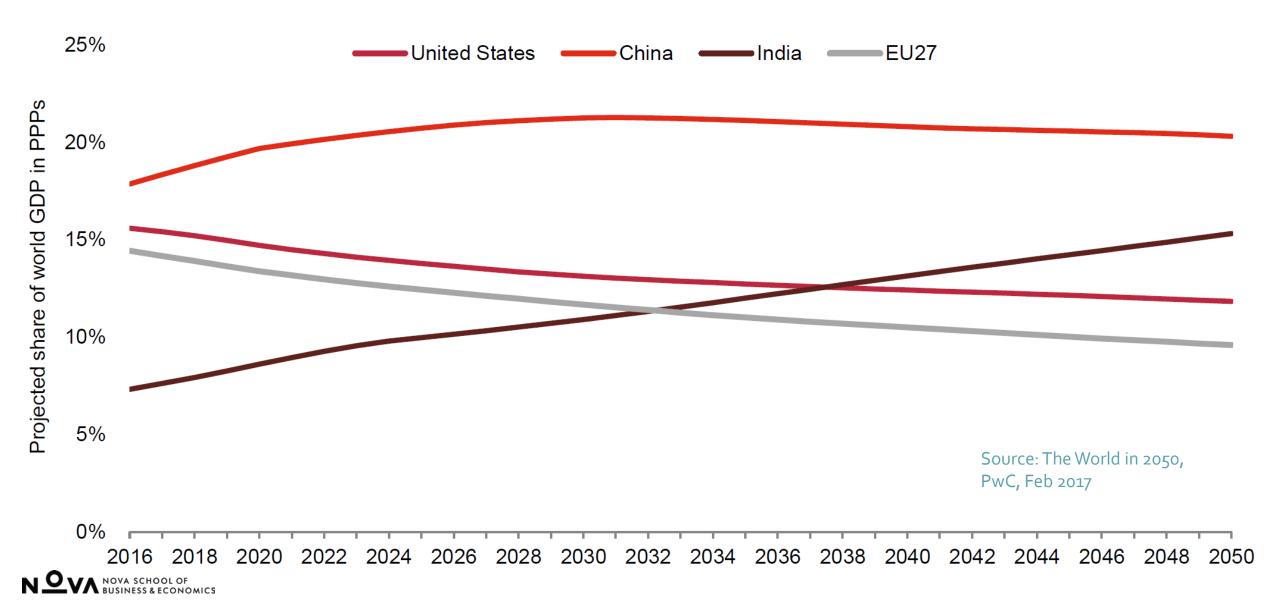
BUT PICKING UP PACE



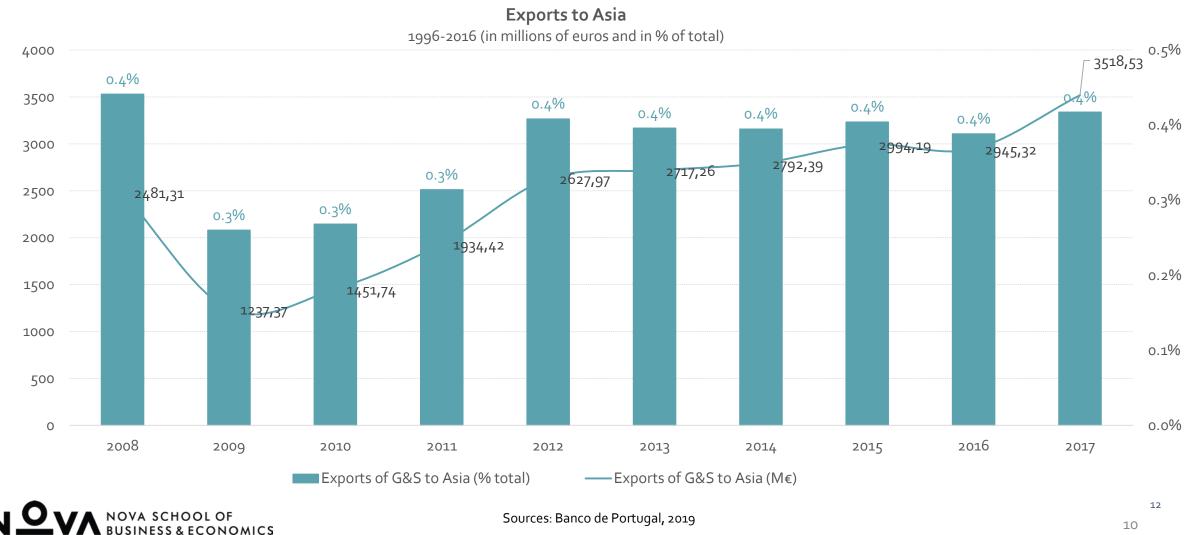
NOVA SCHOOL OF BUSINESS & ECONOMICS S

Source: EIB, 2019

GLOBALIZATION TO ASIA WILL CONTINUE



PORTUGAL TOO SLOW IN ASIA

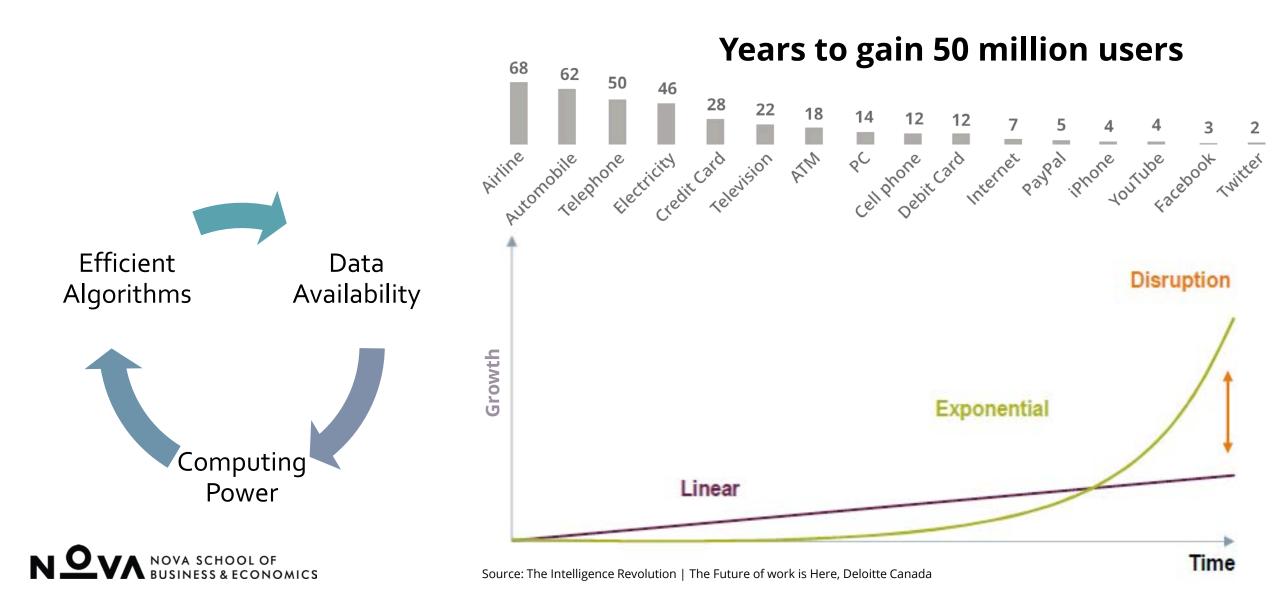


Sources: Banco de Portugal, 2019

Challenges

- Collaboration among firms
- Investment and lead time in Internationalization
- Economic Diplomacy

DIGITAL TECHNOLOGY IS EXPONENTIAL



... AND DISRUPTIVE

If the rate of change on the outside exceeds the rate of change in the inside, the end jask Melor.

63%

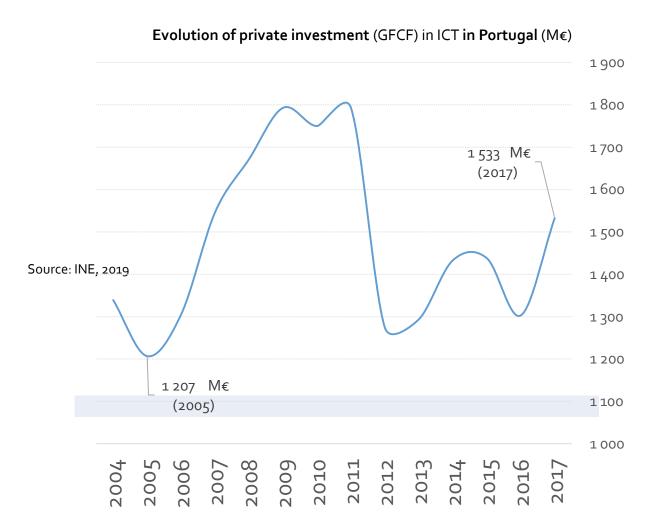
OF COMPANIES ARE

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EXPERIENCING DISRUPTION

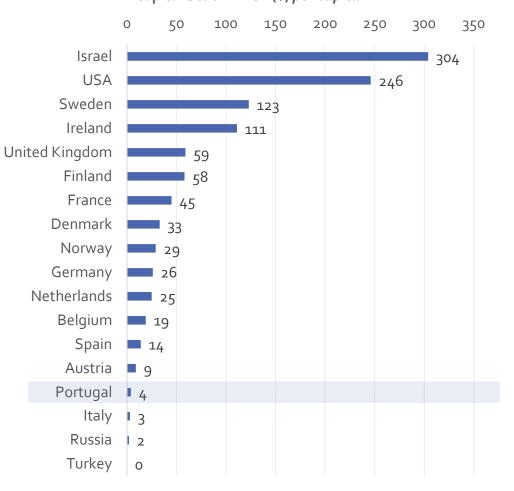


PORTUGAL LAGGING



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Capital Stock in ICT (\$) per capita



Source: State of European Tech, 2017

Challenges

- Leadership and Culture
- Investment in Intangibles
- Digital jobs
- Speed and Stakeholder Partnerships

LEADERSHIP and CULTURE

Bureaucratic hierarchies move slowly, and entrenched interests shy away from risk. In the most dysfunctional organizations, signaling that work is being done becomes a better strategy for career advancement than actually doing work (if this Peter Thiel Descriptions, or Your the Foture mpany, you should quit now). NOVA SCHOOL OF BUSINESS & ECONOMICS



Disrupt or get disrupted!

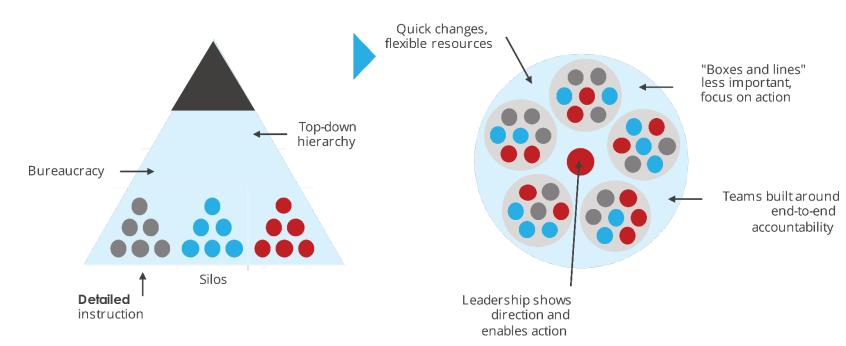
LEADERSHIP and CULTURE

"Give employees slightly more freedom and empowerment than you are comfortable with.

If you are not,

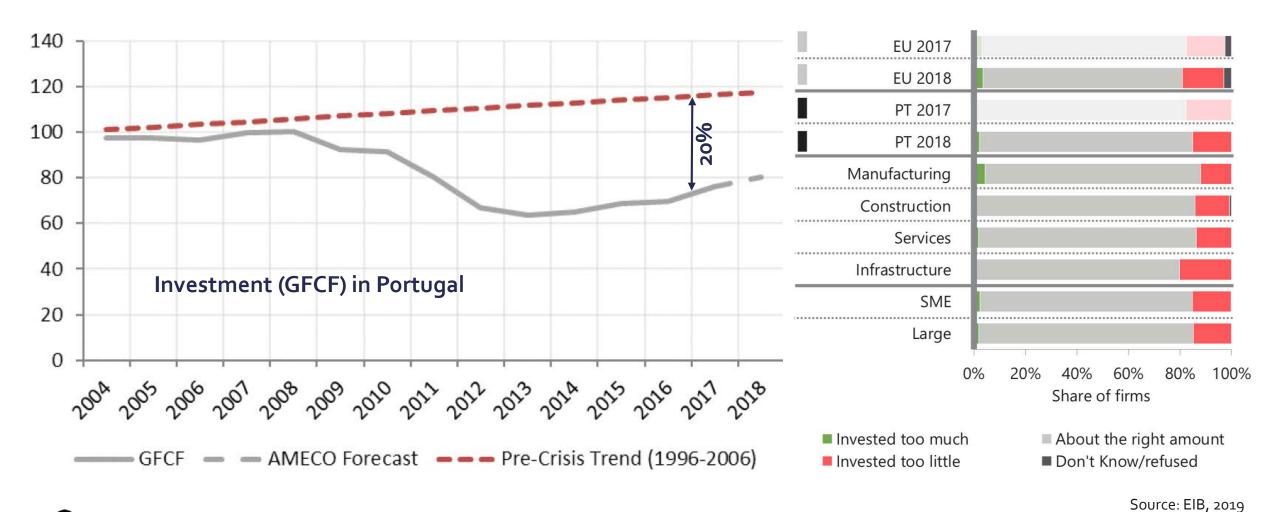
Former SVP People Operations, Google given them Never the provession of the provided of the pr

AGILITY IS CULTURE



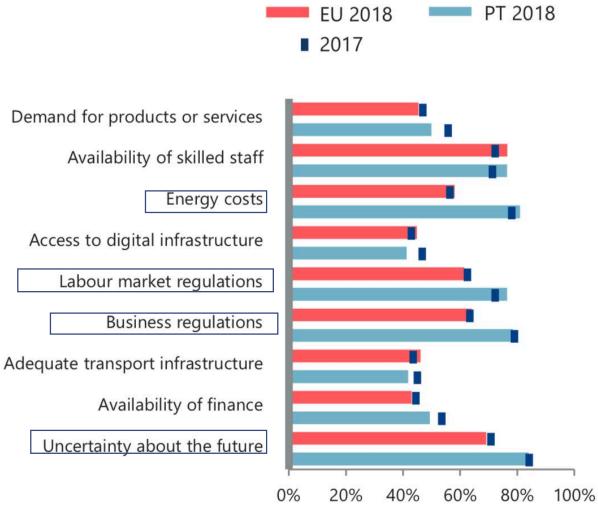
THE INVESTMENT SLUMP

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18

LONG-TERM BARRIERS TO INVESTMENT

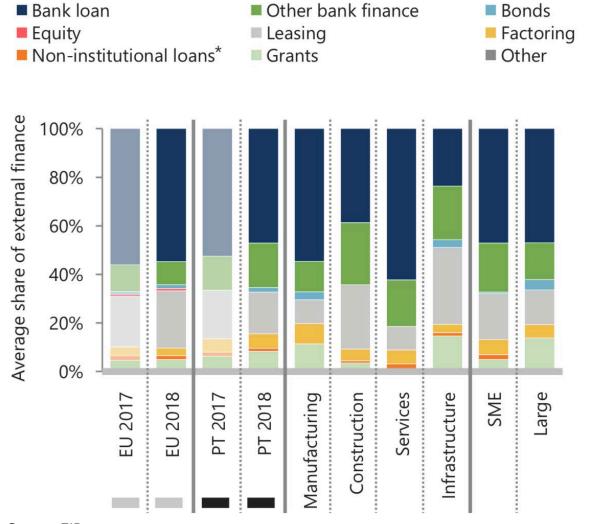




Source: EIB, 2019

Share of firms

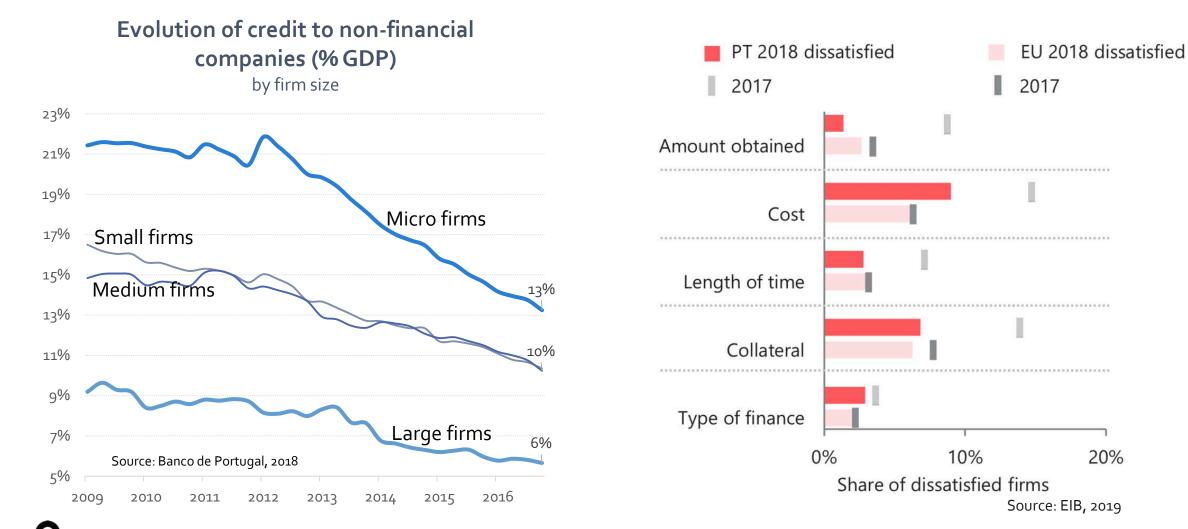
ACCESS TO FINANCE Type of External Finance used for Investment



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Source: EIB, 2019

ACCESS TO FINANCE Dissatisfaction with External Finance



NOVA SCHOOL OF Base: All Business & economics O. How set

 \mathcal{D}

Base: All firms who used external finance in the last financial year (excluding don't know/refused responses) Q. How satisfied or dissatisfied are you with?



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