

Growth challenges towards Industry 4.0

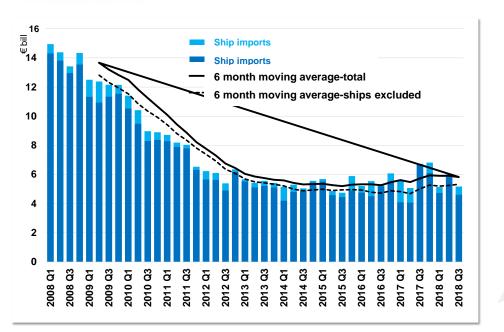
20.03.2019

Dr George Xirogiannis
Director
Industry, Growth and Infrastructure

Copyright rests with the author. All rights reserved.



Investment stagnation



+154.5%, transport equipment

+16.5%, ICT

+18.4%, machinery

-23.2% total investments

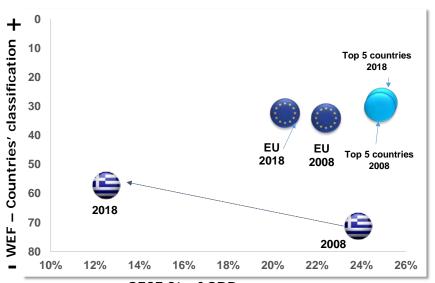


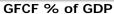
- Outdated state aid practices
- Complex (environmental) licensing
- Over taxation
- Excessive non-wage costs and energy costs



Limited reform appetite

WEF: 27th of 28



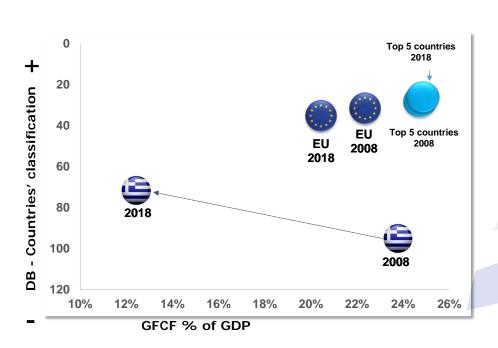






Limited reform appetite

Doing Business: 27th of 28

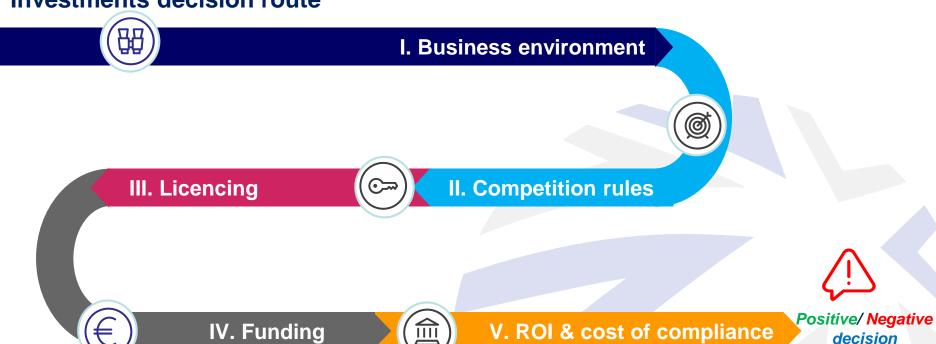






Investment competitiveness

Investments decision route





capability"

Investment competitiveness

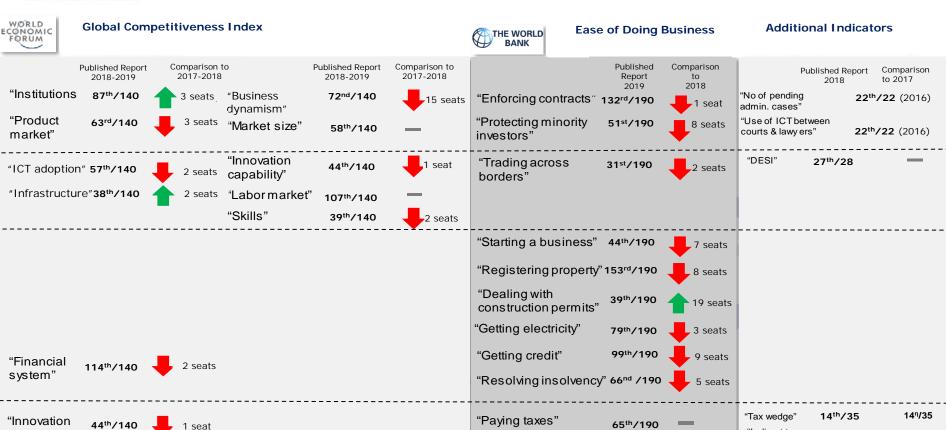
"Indirect taxes

/ GDP"
"Direct taxes /

GDP"

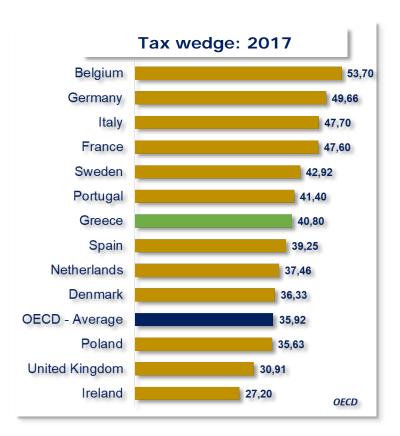
4th/28

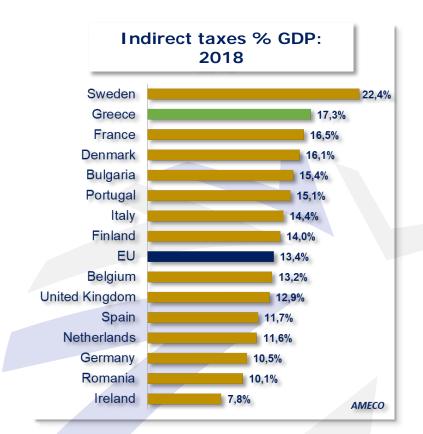
16th/28

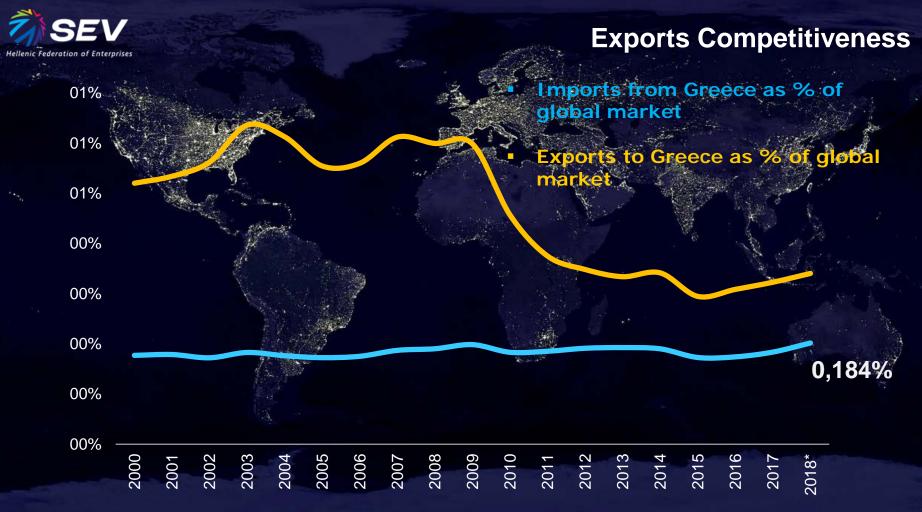




Tax Competitiveness



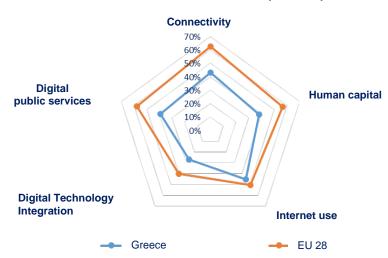






Digital Competiveness

DESI index 2018: Greece 27th (28 E.U.)



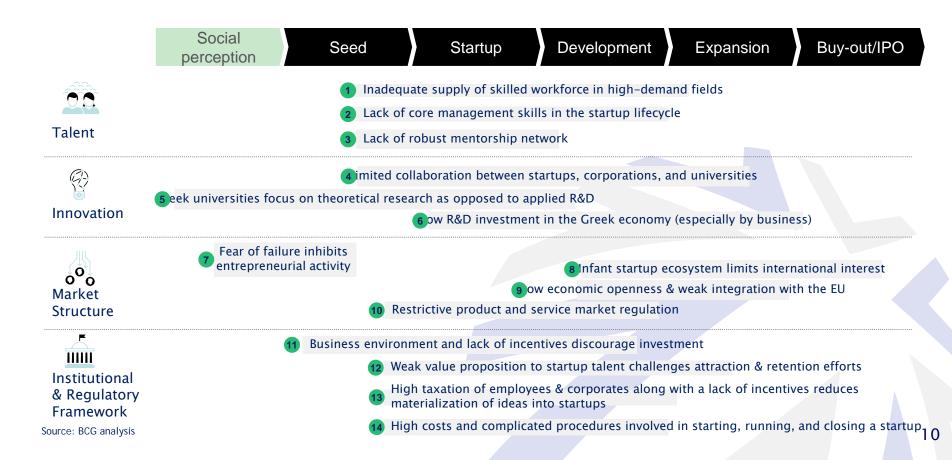
Source: E.C., Digital Scoreboard

- **26**^η Technologies adoption (CRM & ERP)
- **27**^η e-Government services
- 24^η Digital services "Front-office / Back-office
- 5,5% Cloud services, EU at 20.5%
- **6,5%** e-invoicing, EU at 31,5%

SMEs website availability, 1 out of 3
4% integrated digital system



Innovation pain points











Industry 4.0 financing tools

		Austria	Belgium	France	Germany	Denmark	Σ	Spain	ltaly	Lithuania	Lux	Holland	Hungary	Poland	Portugal	Sweden	Czech Republic
Incentives	Innovation Vouchers		٧	٧	٧		٧			٧			٧	٧	٧		٧
	Super Depreciations			٧		٧			٧								
	FDI incentives	٧													٧	٧	٧
	Tax reduction	٧	٧	٧		٧	٧	٧	٧	٧		٧		٧		٧	
Financing	Guarantees / Loans			٧		٧	٧		٧			٧	٧	٧	٧		
	Innovation Fund		٧	٧	٧	٧	٧				٧	٧		V		٧	٧
	Venture capital - Support start-ups	٧		٧	٧	٧	٧	٧	V			٧		٧		٧	
Patents & IP incentives		٧	٧		٧		٧		٧	٧	٧			٧			



Innovation partnerships

Digital technologies promotion

Research Institutions & Industry

- > **Spain**, «22@ Barcelona Innovation District»: 10 Universities, 12 research institutions, incubators, accelerators, 8.500 businesses &100.000 employees
- ➤ Italy, 100 Digital Innovation Hubs on specialized education, supporting SMEs for I4.0 and fostering innovative projects.

Skills

Utilizing digital skills and competences

- Austria, «Schule 4.0», early acquiring of digital skills
- Italy, funding 1400 PhDs



Greece 4.0 objective

DIGITAL MATURITY INDEX
201X

201X + 5
"BUSINESS AS
USUAL"

201X + 5 TARGET

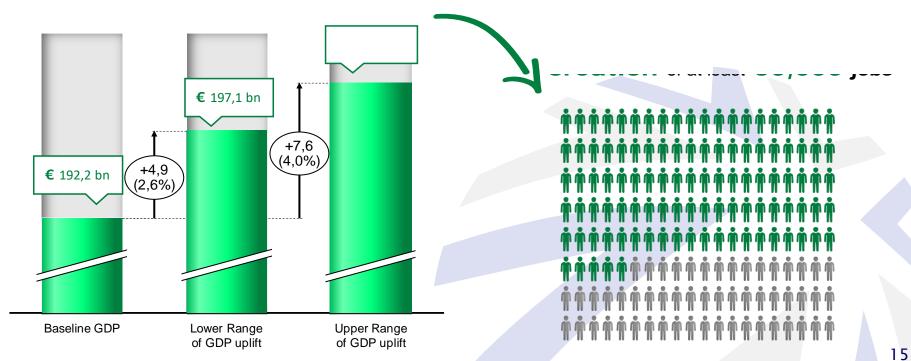














Administrative burden

Investment reforms

1-in / 2-out rule. For every new regulation which creates additional administrative burdens for businesses, the abolishment of regulations which create double the burden in question is required.

Adoption of a binding annual program for the simplification, codification, evaluation, deregulation

Fixed dates for implementation of new legislation

Legislative priority in reducing administrative burden.

A Pact for SMEs: After assessment by the public administration, if new regulatory arrangements entail disproportionately high burden on SMEs, they can be excluded from implementation. Alternatively, measures to reduce the impact (e.g. a few exceptions, a transition period, etc.) may be sought.

Digital Public Services (Government 2.0): Single Window, Single Tax Portfolio, Electronic Registers (Urban Planning, Land Use, Licensing, unique digital ID). Single Digital ID, Digital transactions throughout the supply chain. Digital document management and workflows. Digital services by default. "One-time" information principle.



Justice administration

Investment reforms

Administrative support for judges, especially in investment-related cases

Case assignment based on complexity.

Electronic court automation (e-courts)

- Fully electronic procedures (e.g. document submissions, electronic documents, work progress, decision making, electronic boards, etc.).
- Courts are electronically interconnected with public services to directly retrieve information.



Licensing reforms

Investment reforms

- 1. Spatial Planning and information tools
 - **Digitization** of geolocation and licensing requirements.
 - **Pre-licensing** with building regulations
 - Completion of the cadaster with priority in areas of investment attractiveness.
 - Rapid resolution of conflicts in land use
- 2. Simplifying licensing

Declarations of conformity and deadlines for approvals

- "One-stop shop licensing". Options may include
 - "All-in-One Permit" or "All-in-one Agency"
 - Central licensing authority for major projects
 - Last-resort committee or agency

Alignment with EU practices

- Re-classification of environmental impact
- Remove categorization based on nuisance
- Parallel implementation of "environmental" and "spatial / urban planning"





Investment reforms

Tax predictability with set dates of any legislative change

- Eliminate tax evasion and tax avoidance. E-invoices can provide significant benefits including a 15% reduction in supply chain costs, up to €1.4 billion in the private sector, 80% reduction of false tax statements, up to €200 million increase in public revenues from the reduction of smuggling.
- Loss carry forward without a time limitation. Alternatively, loss carry forward losses for 12 years, with an annual cap of 70% on profits.
- A single tax portfolio for offsetting all forms of tax, duties and VAT (debit / credit)

Horizontal investment incentives for Industry 4.0 technologies and equipment

- Accelerated depreciations
- Super-depreciation 200%

Revolving state aid tools: Tax credits instead of grants & revolving grants.

