Recognizing Uncertainty

Eric Bartelsman¹, Jing Chen¹ and Atanas Kolev²

¹Vrije Universiteit Amsterdam, Tinbergen Institute

²EIB

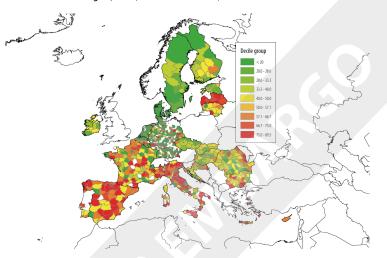
EIB Luxembourg November 23, 2017

Eric Bartelsman, Jing Chen and Atanas Kolev Recognizing Uncertainty

- Two thirds of firms consider uncertainty as a major impediment to investment
- The uncertainty that impedes firms' investment may come from many sources
- It is a wide spread of future outcomes that induces firms to wait for more information before committing to (partially) irreversible investment
- Recognizing the sources of uncertainty is a prerequisite to finding possible policy options
- Quantifying the links between policy, uncertainty, and investment remains difficult
- Data, theory, and common sense do point to some low or no-cost policy options

Uncertainty as an Impediment

Figure 2 Uncertainty as a major impediment to investment activity by NUTS-3 region, 2015 (share of total answers)



 Source:
 EBIS2016, authors' calculations

 Note:
 The numbers on the map are the shares of answers "A major impediment" in the total number of answers. Groups are

 Eric Bartelsman, Jing Chen and Atanas Kolev
 Recognizing Uncertainty

Basic Facts from EIBIS

- Regional variation in uncertainty as an impediment is quite large
- In periphery countries, a much higher percentage of firms considers uncertainty as a major impediment
- The variation across broad sectors is not very large
- In 'other EU countries', large firms see uncertainty as less of an impediment, as seen by the large share of investment that takes place in firms that are not impeded by uncertainty.
- In periphery countries, this firm size and uncertainty correlation is not evident.

- Technology
- Comptitors actions
- Input markets (labor, capital)
- Output markets
- Macro factors
- Institutional/regulatory
- Regional/local conditions

Table 2. Correlation between uncertainty measures

	Marginal effect	π^{v}	π^x	churn	gjr	q^{ν}
XIU						
π^{v}	1.60***	1.00	0.15	0.17	0.13	0.79
π^{x}	7.63***		1.00	0.50	0.41	0.17
churn	3.48***			1.00	0.72	0.20
gjr	8.67***				1.00	0.15
q^{v}	1.68***					1.00

- Credit constrained firms are more likely to see uncertainty as an impediment to investment. Regulatory stability and predictability could help.
- Reducing policy-induced frictions to resource flexibility will increase resilience to shocks and reduce wait-and-see attitude towards investment
- Large, globally oriented firms see fewer impediments from uncertainty, likely because they are able to scale up or down more easily with a given capital stock
- Boosting intangible investment is good for future productivity, but also reduces impact of future uncertainty on investment.