

T

A

Č

R

Research useful to society

T A
Č R

Mapping the innovation capacities INKA 2014+

Martin Buněk

Technology Agency of the Czech Republic

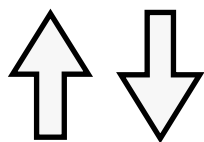
Innovation ecosystem in the Czech Republic - Main findings

TAFTIE - 14. 9. 2017

T A
Č R

Purpose of the project

- How is the **Czech Republic** doing in **innovations**?

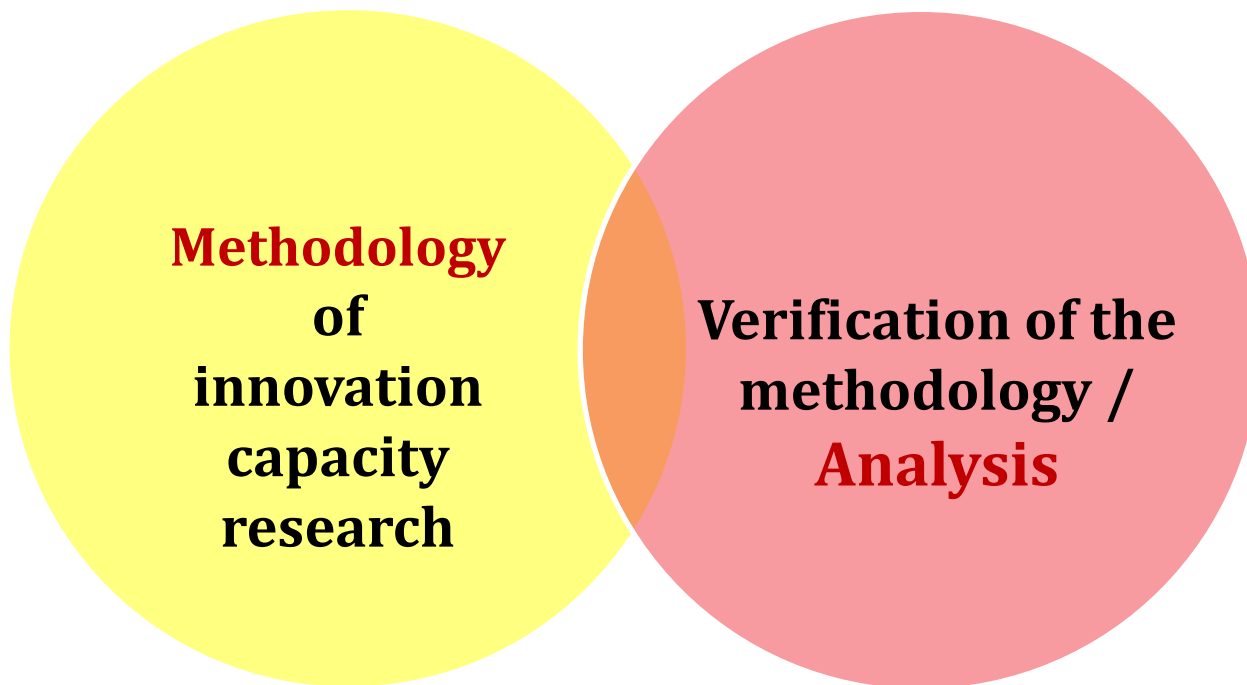


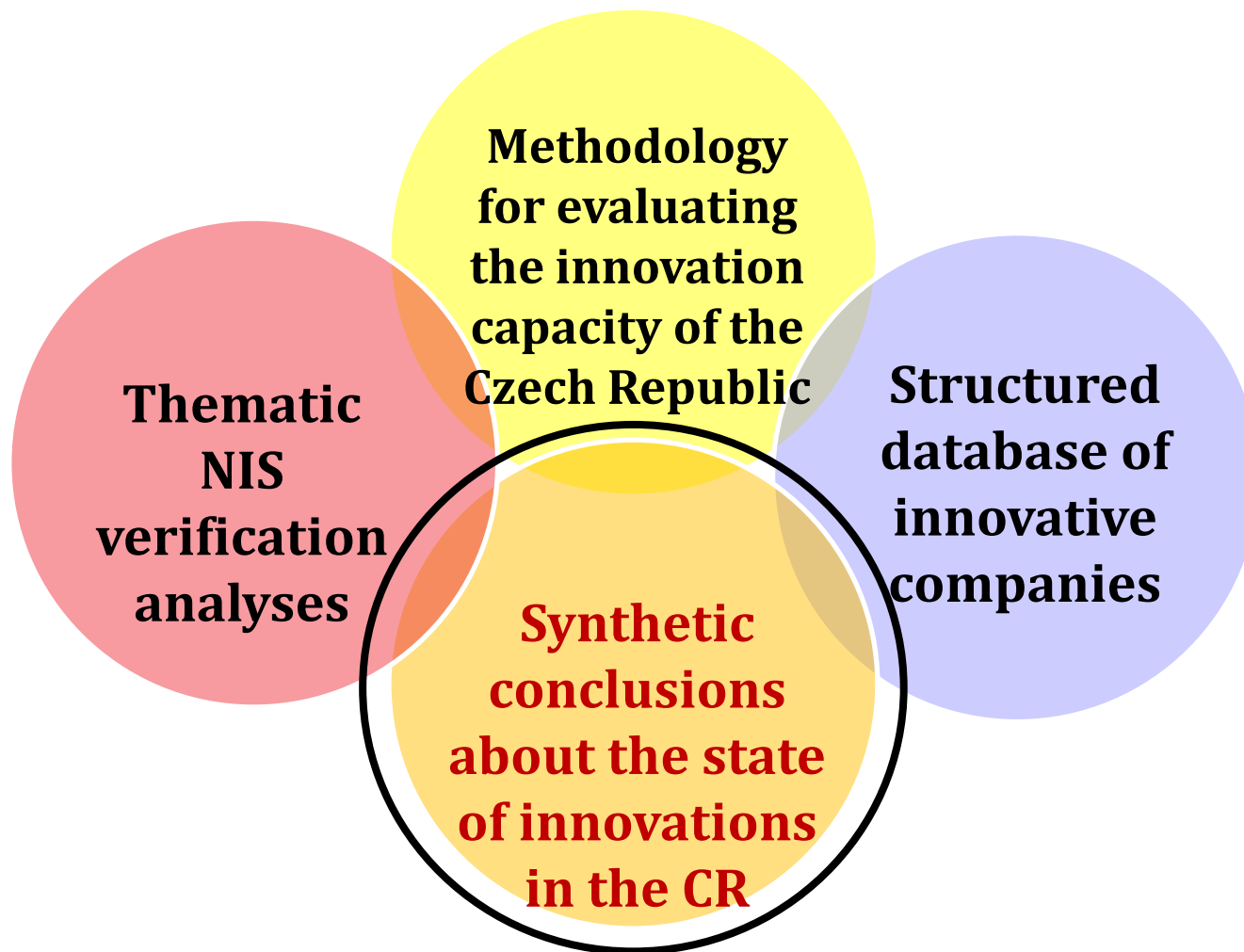
- How to **measure innovation** in the **economy**?



T A
Č R

Project objectives





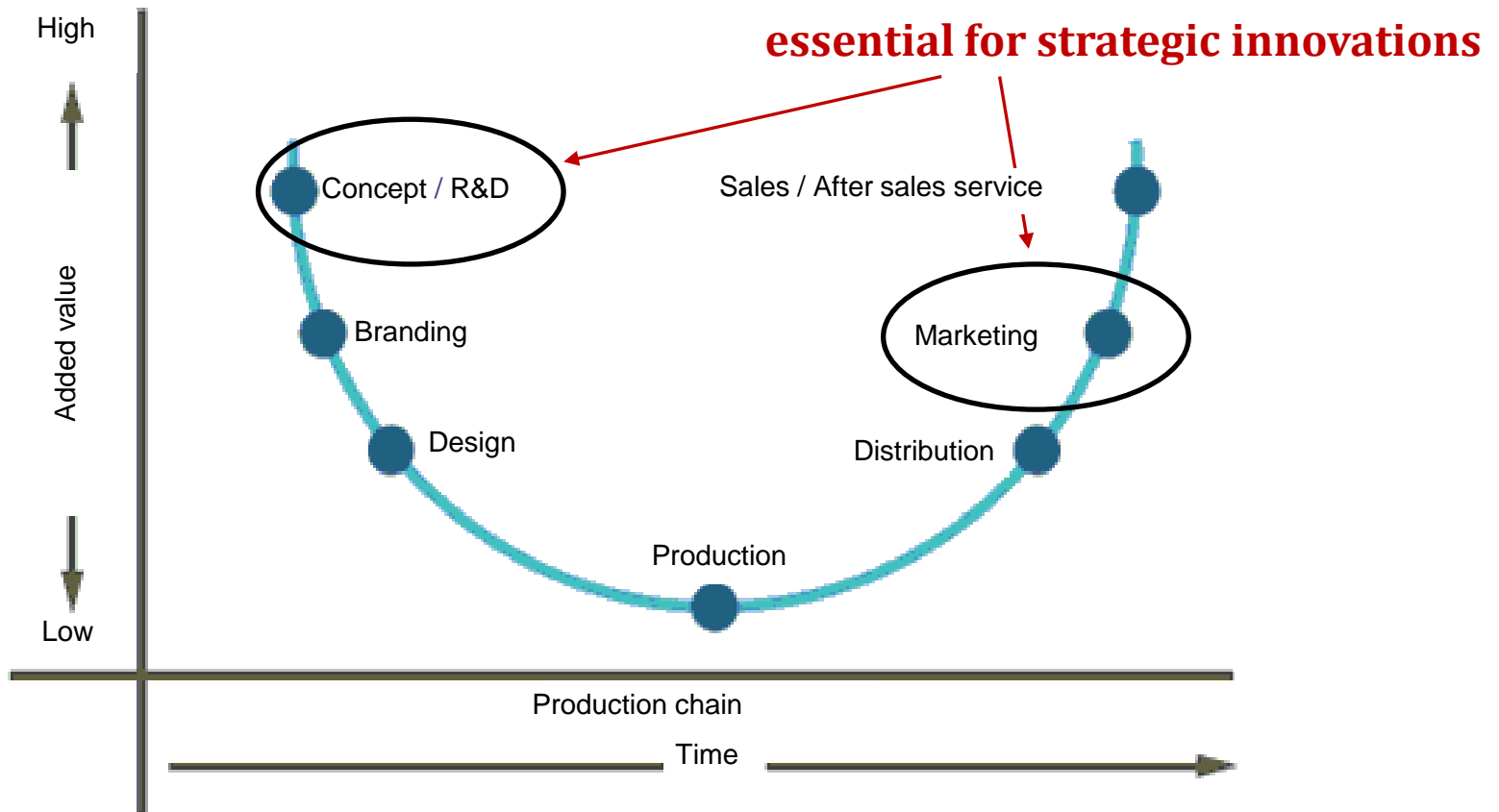
- **Team of approx. 50 experts**
- **January 2014 – December 2015 (spring 2016)**
- **International expert peer review**
- **Macro (top-down) ☐ Micro (bottom-up) perspective**
- **Pilot:**
 - **452 companies + 82 RDI**
 - **240 th. employees 807 bln export 30 bln BERD**

Main findings from pilot

1. CR is a **dependent** economy, but **not** just a **country of assembly plants**
2. Key **role of international companies** in the development of the innovation ecosystem of the CR
3. CR is a **highly innovative** economy **at lower levels** of innovations
4. With regard to breakthrough innovations, it is an **adapter or adopter**
5. Main **barriers** to innovation are **people** (ambitions, experience, competences...), **capacities and market competences of companies**
6. **Limited relevance of aggregate statistics**

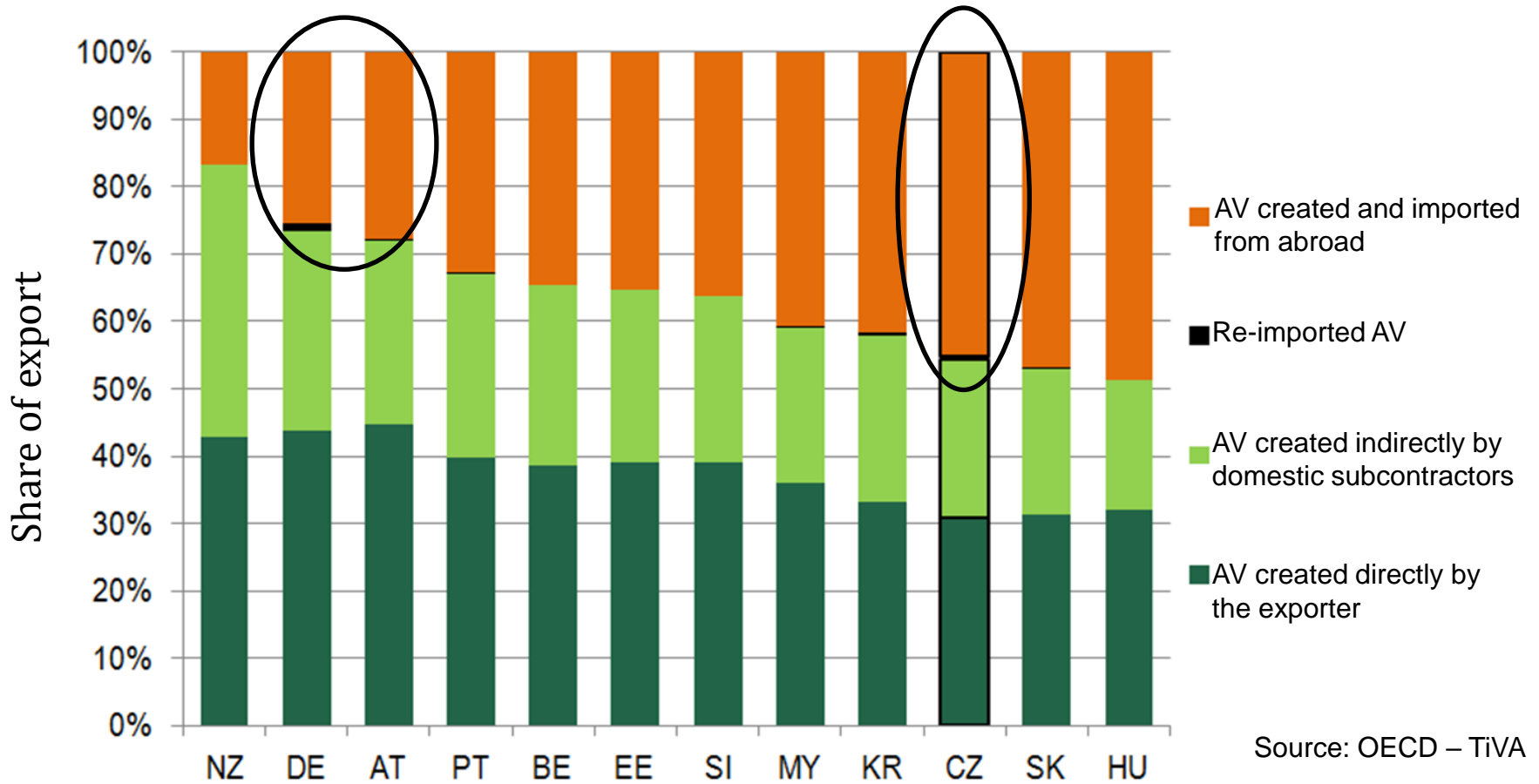
Distribution of value chains

Depends of the nature of activities of foreign companies



What is the CR exporting?

Almost one half of the value of the CR's export is imported from abroad.
Structure of export by the geography of added value:



Two INKA “pillars”

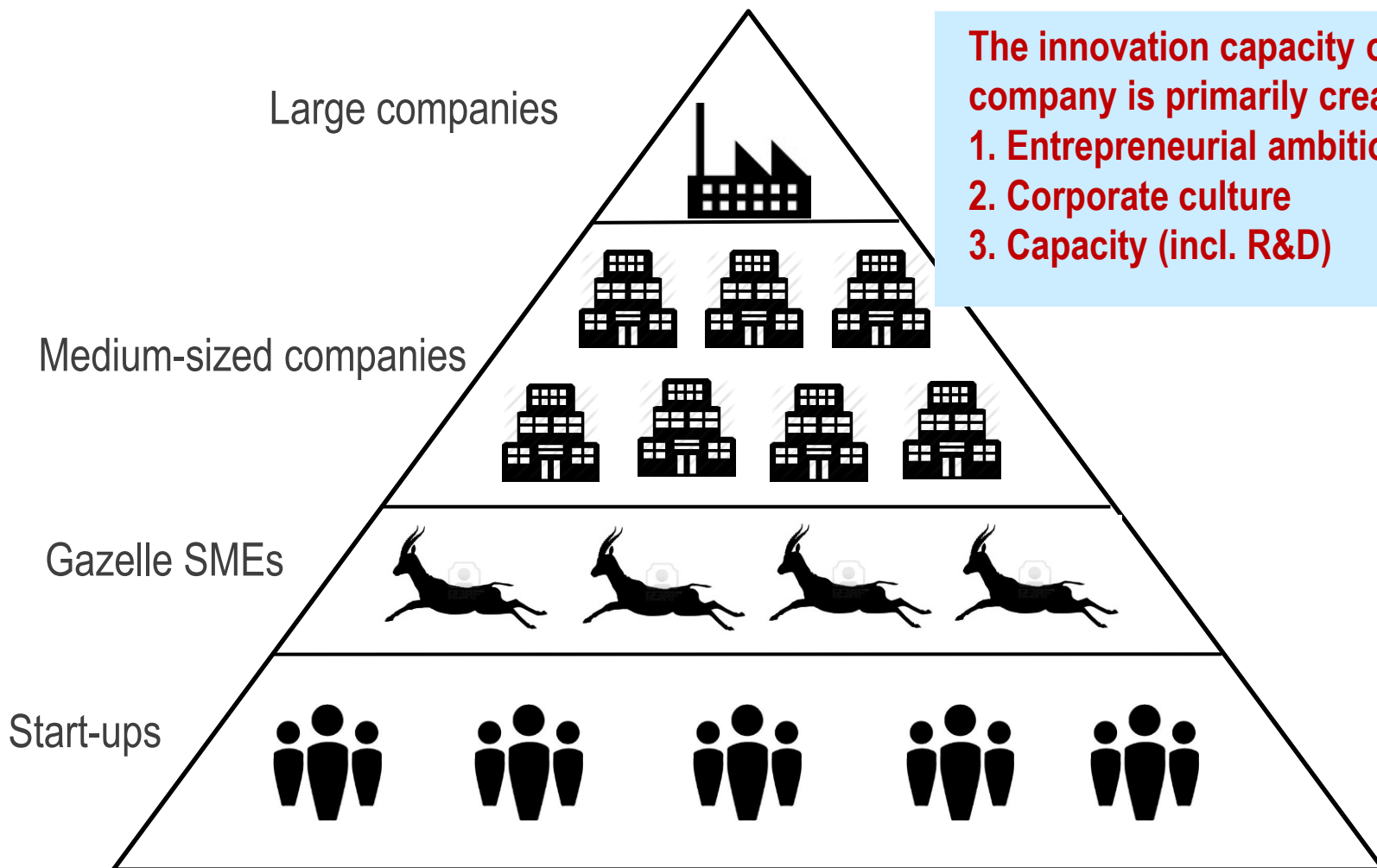
**Analyses based on
statistical („hard“)
data and
combination of
existing
data/analyses**

**Structured database
of innovative
companies/subjects**

- based on:**
- *„face to face“
structured
interviews*
 - *additional
information of
subjects (from
different sources)*

T A
Č R

Many factors influence the innovation capacities of a company size and stage of the life cycle



The innovation capacity of a company is primarily created by:

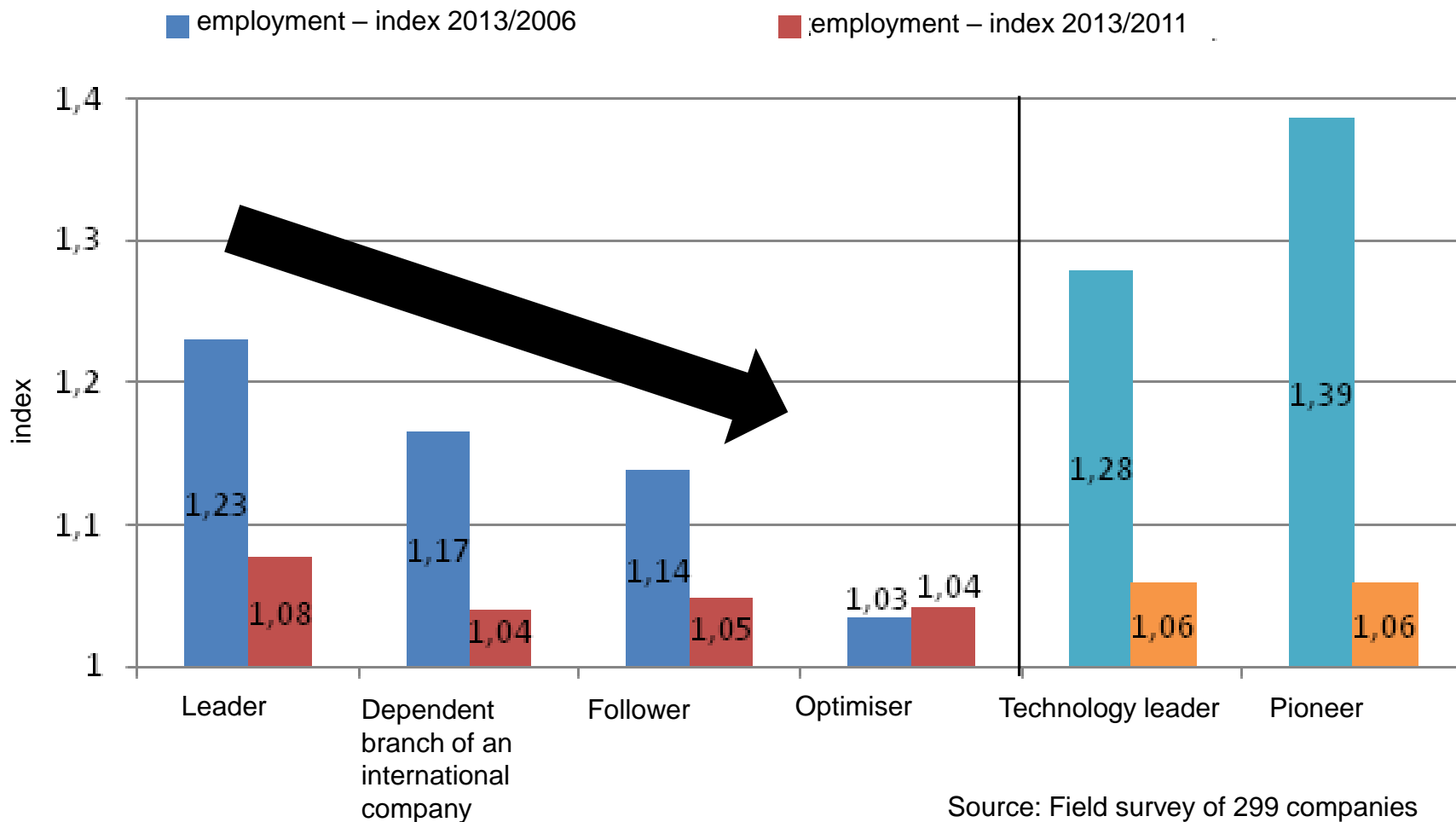
1. Entrepreneurial ambitions
2. Corporate culture
3. Capacity (incl. R&D)

Complex typology of companies

		Position on the market					Total
		(Post)start-up	Local company	Regional company	Global company	Dependent company	
Innovation aspirations	Leader	16	1	18	37	0	72
	Branch of an international company	0	2	0	1	86	89
	Follower	8	12	38	15	0	73
	Optimiser	4	26	16	3	3	52
	Company without vision	5	4	2	1	1	13
	Total	33	45	74	57	90	299

Source: Field survey of 299 companies

Innovative aspirations affect employment



Current mapping of innovation capacities

- Cooperation in mapping of innovation capacities was set with regional innovation centres and in cooperation with the CzechInvest Agency
- Mapping is performed according to a uniform methodology of the INKA project
- TA CR provides a methodological guidance, patronage, and organization of the mapping
- Advantage: comparability of data over time and across regions of the CR

- Structured interviews in innovative companies
 - common part – comparability of data in regions
 - specific part – reflects regional specifics and needs
- Exchange of data among regions
- Common Database System - <http://inkaviz.tacr.cz/>
 - searching and viewing data
 - Analytical superstructure – interactive data visualization (under construction - [example](#))

- Linking company data to other databases - web crawler:
 - Patent database
 - Magnusweb
 - TA CR Database
 - IS RDI...

T A

Č R

Thank you for your attention

www.tacr.cz

<https://inka.tacr.cz/>

<http://inkaviz.tacr.cz/>