Regional industrial mix, specialization and underemployment across Greek regions:

Estimating the harsh impact of austerity based on location quotient & shift – share analysis

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"ACTION: 'PARTICIPATORY ACTION RESEARCH TO ADDRESS UN/UNDER-EMPLOYMENT

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what about underemployment?

- •Are there territory-specific patterns of underemployment?
- •is there an expansion of underemployment and if so, in which sectors and regions?

Aiming to reveal the interface between

•local specialization, restructuring and increasing labour surplus

Research hypothesis

The phenomenon of underemployment

- •is an individual aspect of flexible labour trends
- triggered by recession and expanding amid crisis
 - in uneven, geographical and sectoral, terms

Underemployment comprises but a part of the **Industrial Reserve Army** (labour surplus)

Underemployment and the Industrial Reserve Army (definitions...)

•Underemployed employees/ workers:

•...usually work on a part-time basis while need and desire full-time employment or are employed at a low-paying job that requires less skill or training than they possess

•Industrial Reserve Army:

- •Re-produced by capitalism and expanding amid crises
- pivotal to overcome the crises of over-accumulation

A key element hindering the radicalization of the labourers

Methodological approach

Part-time work: a good proxy of underemployment

LQ index for analyzing specialization/ uneven concentration:

$$LQ = \frac{Eir}{Er} / \frac{Ein}{En}$$

Shift-share analysis to clarify the factors causing employment change

$$\Delta E = NS + IM + RS$$

- $NS = \Omega_n$
- $\langle M=[SUM]]_i ||\{(Eir/Er-1/i) \times \Omega_r\}-\{(Ein/En-1/i) \times \Omega_n\}||$
- >Study period: 2005-2008 & 2009-2012
- Implemented across all 13 Greek regions and 9 grouped sectors

Methodological approach

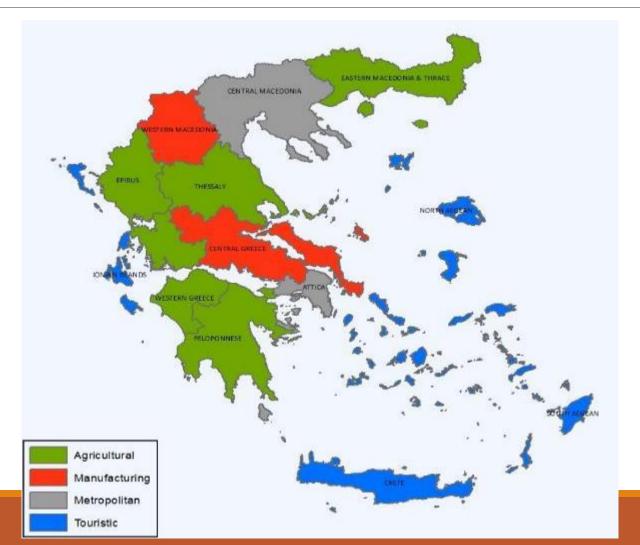
LQ index

1-	Regional Industry Employment Regional Total Employment State Industry Employment State Total Employment	Value	Implication
		LQ > 1	Area has proportionally more workers employed in a specific industry sector than the larger comparison area
		LQ ≥ 1.25	Area industry has potential to be classified as exporter
\		LQ < 1	May indicate opportunity to develop businesses in the local area

Shift-share analysis

$$\begin{split} e_i^{t+n} - e_i^t &= NS_i + IM_i + RS_i \\ \text{Where,} \\ e_i^{t+n} - e_i^t &\text{is the total employment change from time t to t+n for industry, i} \\ NS_i &\text{The national effect (national growth rate)} \\ IM_i &\text{The industry mix effect for industry, i} \\ RS_i &\text{The local (regional) share effect for industry, i} \end{split}$$

Greek regions per productive profile



Waged part-time employment regional concentrations

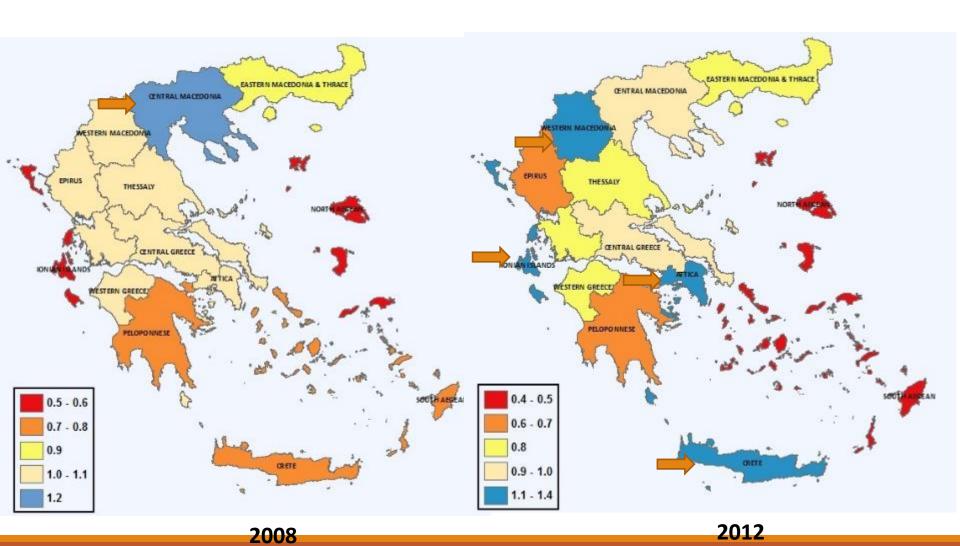
Main regions of underemployment:

- Metropolitan Attica
- Secondarily, also metropolitan Central Macedonia

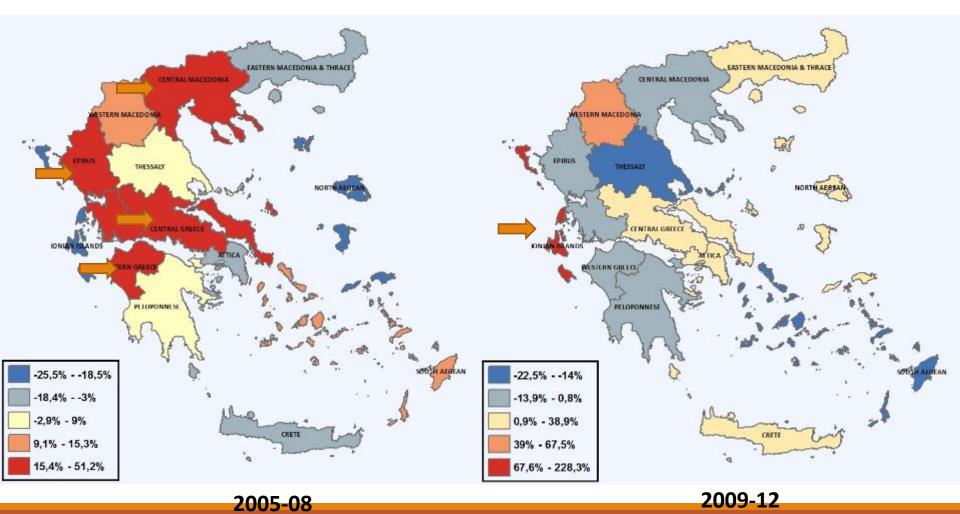
Sharp increases after 2009 in:

- Touristic regions (especially the Ionian Islands)
- Manufacturing Western Macedonia

Waged part-time concentrations



Waged part-time employment changes



Waged part-time employment sectoral concentrations

Main sectors:

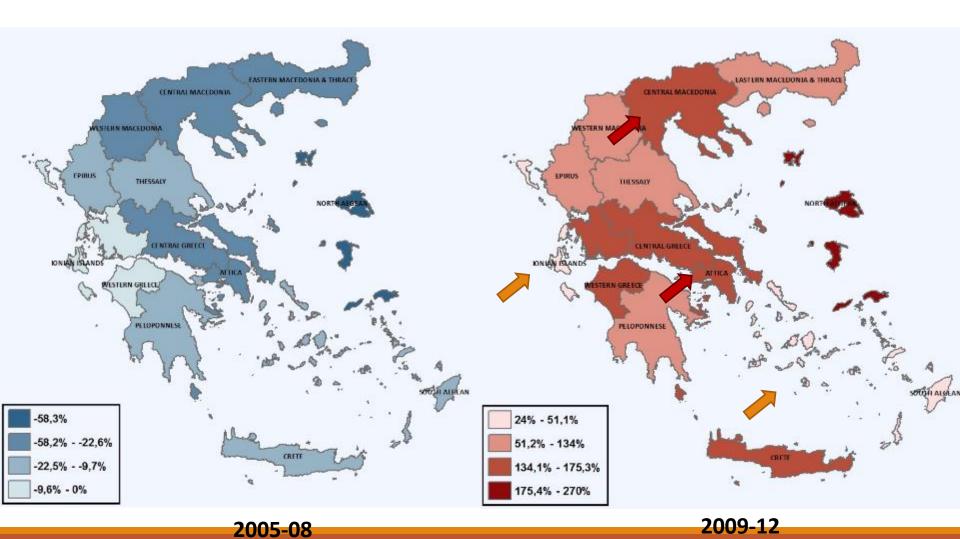
- Primarily in leisure, arts and similar activities
- Followed by hotel, food and catering

Construction: nearly doubled its numbers during recession

Public administration, healthcare & education: salient sector losing ground

 Receded after the abrupt mass termination of temporary parttime contracts in the public sector

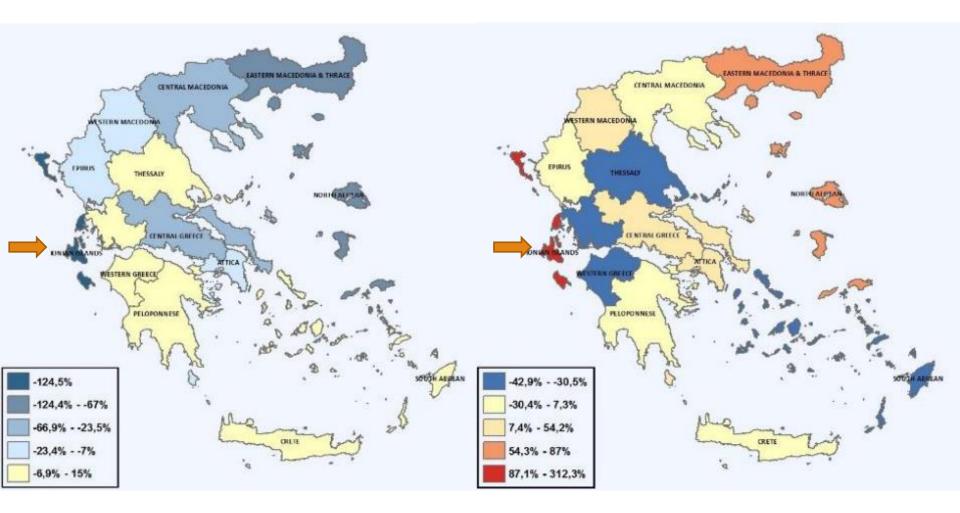
While unemployment rates skyrocket...



Factors of influence: Shift-share analysis

- Regional characteristics the main drive of waged part-time employment changes in both periods
 - Sectoral impact sticks out only in some touristic regions, and only in the first period
- ii. RS is mainly positive while IM is negative, with the former boosting the overall numbers of waged part-timers
- iii. National impact is weak in both periods

Dominant factor: Regional effects



2005-08 2009-12

Conclusions - Discussion

Uneven underlying tendencies, even within regional production groups

Driven mainly by each region's local characteristics

part-time employment increase amid labour market collapse

- pro-crisis deregulation and flexibilization trends failed to tackle recession
- •sectors with biggest losses in total employment (e.g. constructions), had the sharpest raises (i.e. cannot sustain their full-timers)



Every single stage in capital's reproduction is **place-based** while combinations of different stages produce different, though overlapping, **spaces of production and consumption**

Deeper political – economic causal mechanisms

Productive & technological priorities (profit- oriented)

low-technology semi-dependent structures, intense capital devaluation, high fall in consumption...

Market – driven organizational changes

Producing not only underemployment but also overtime work

Institutional and welfare reforms

Making underemployment very cheap for the employers

Final remarks

- post-crisis patterns reveal a geographically uneven shift in many -even the regional labor markets to larger shares of under-employment
- "Uneven development is both the product and the geographical premise of capitalist development" (Smith, 1982)
- > unions and workers should take into account the complex socio-geographical realities of underemployment ...
 - in order to be able to make their agency more effective...

Thanks for your interest

Co-funding for this research:

European Economic Area grants (EEA Grants, 2009 – 2014, **Grants** www.eeagrants.org) and Public Investments Programme, General Secretariat for Research and Technology of the Ministry of Education and Religious Affairs (Programme Operator, www.gsrt.gr)