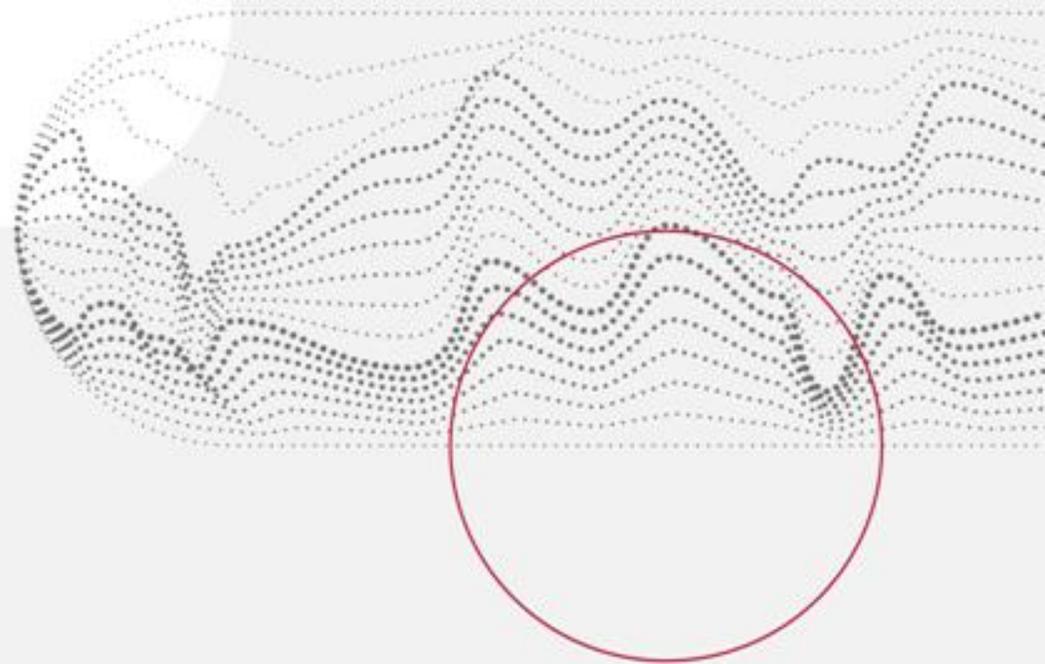


The evolution of task content of jobs in Central Eastern Europe

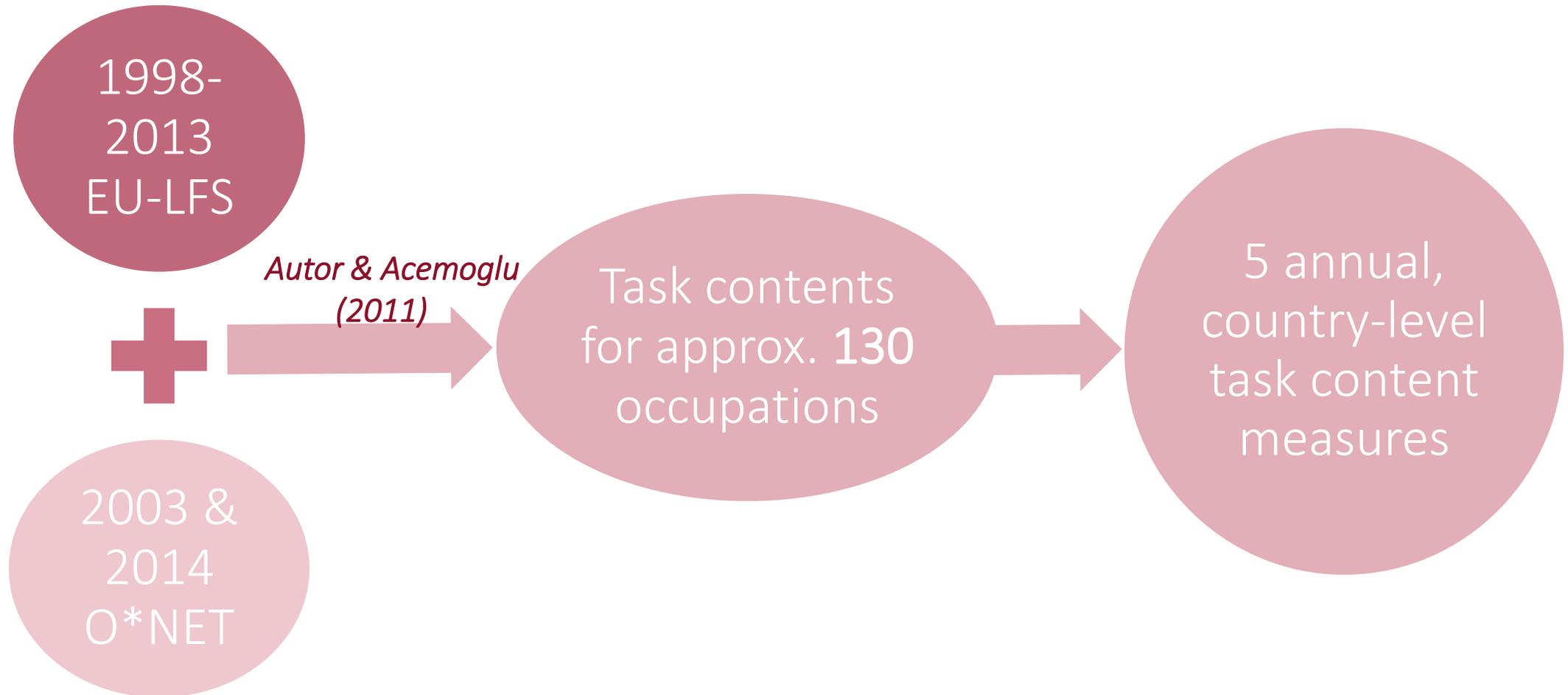
Piotr Lewandowski,
Wojciech Hardy, Roma Keister,
Szymon Górka



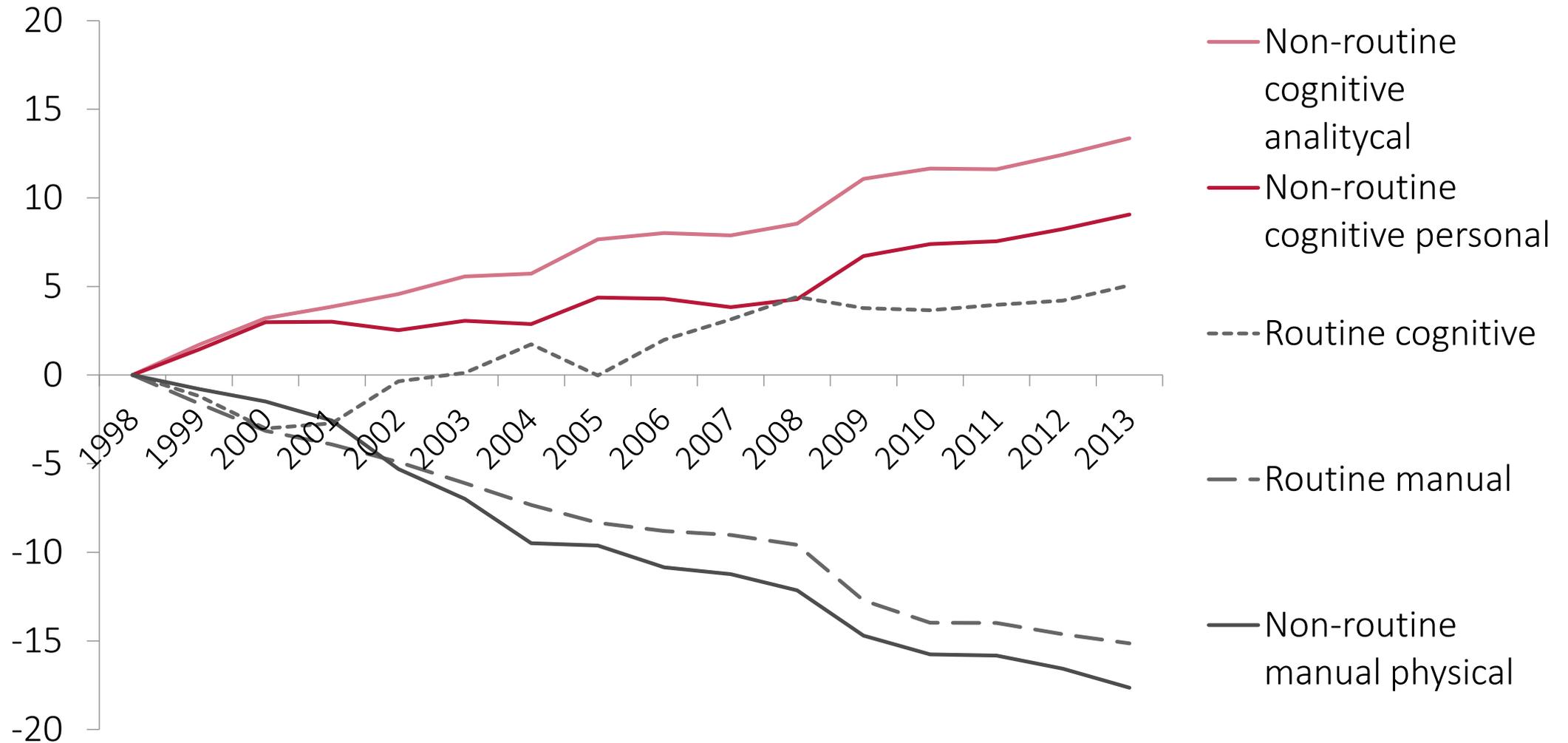
How has the nature of jobs changed in CEE?



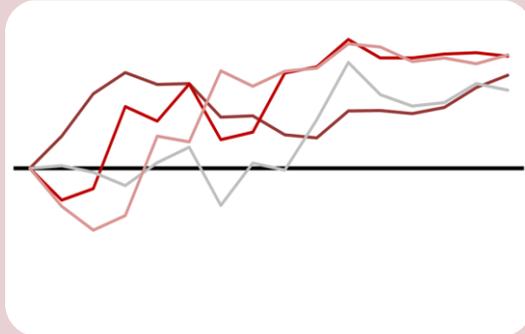
Empirical strategy



Task content in CEE9 - familiar story except for routine cognitive tasks . | :



Different developments in routine cognitive tasks



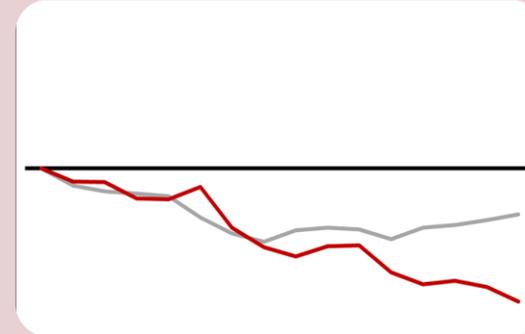
Increasing

- Estonia
- Latvia
- Lithuania
- Romania



Stable

- Czech Rep.
- Croatia
- Poland
- Slovakia



Decreasing

- Hungary
- Slovenia

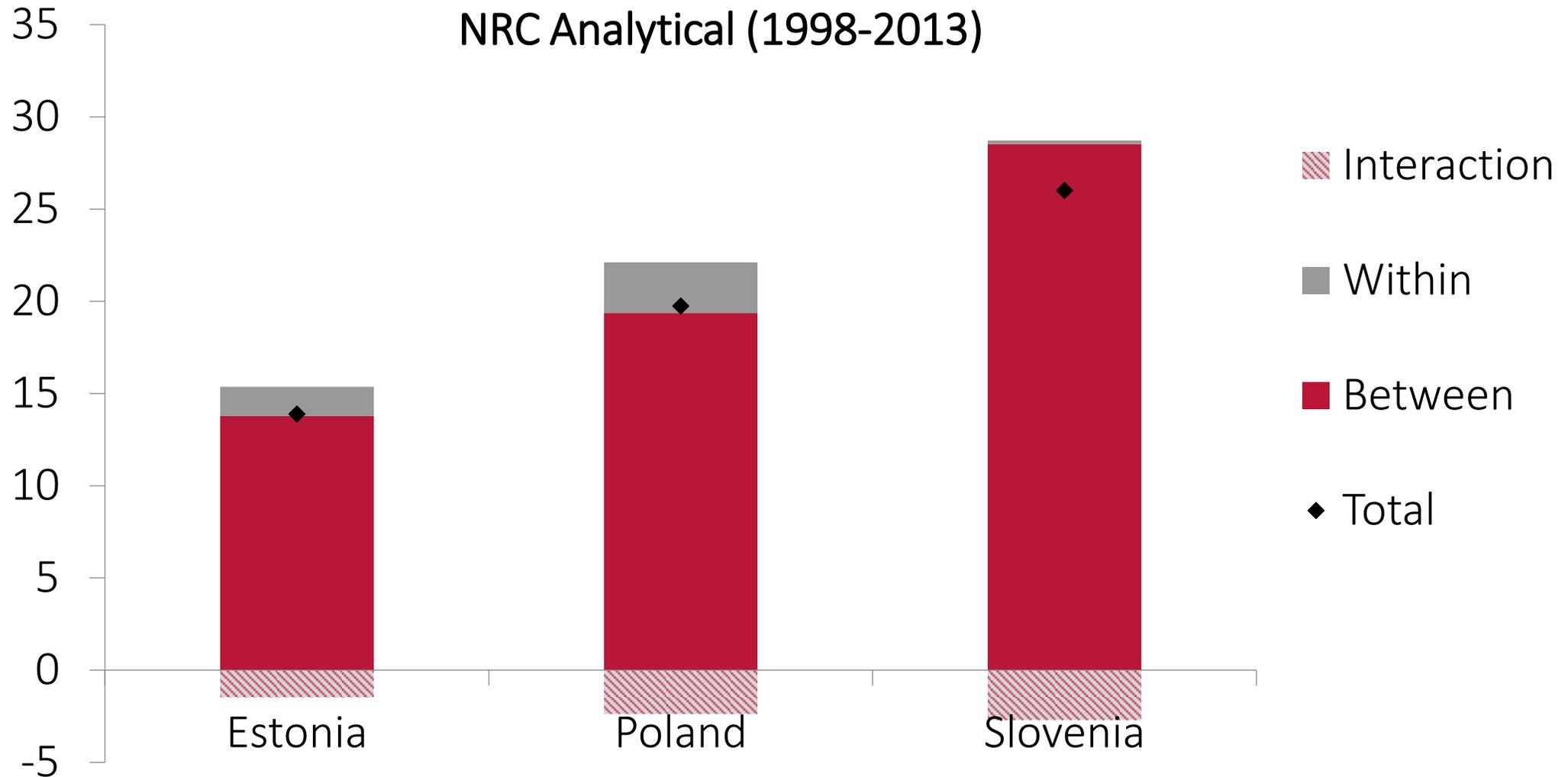
Shift-share look at the evolution of task contents



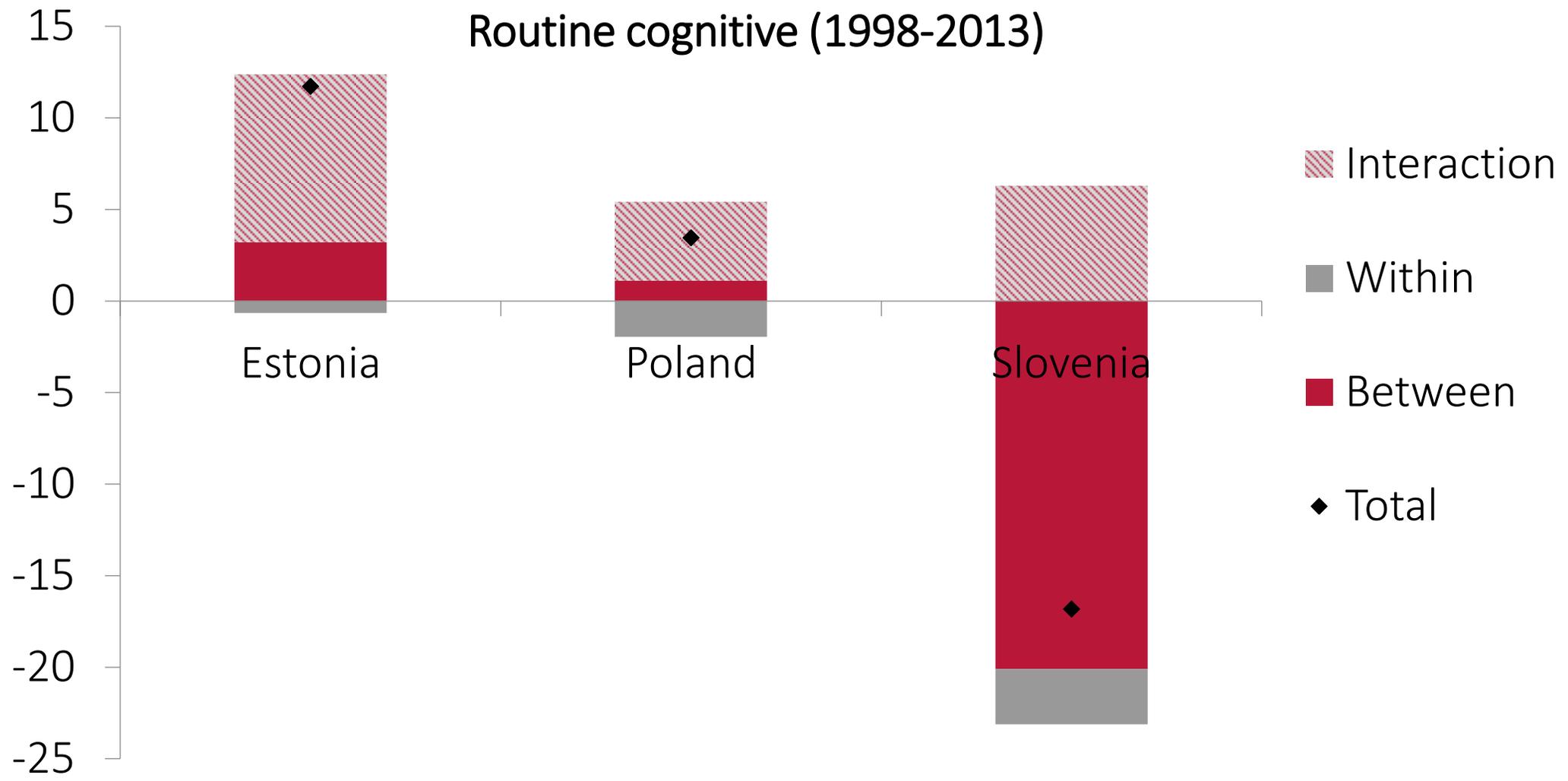
What was the contribution of :

- changes in structure of employment (**between-occupation** effect)
- changes in task content intensities over time (**within-occupation**)
- **interaction** between the two

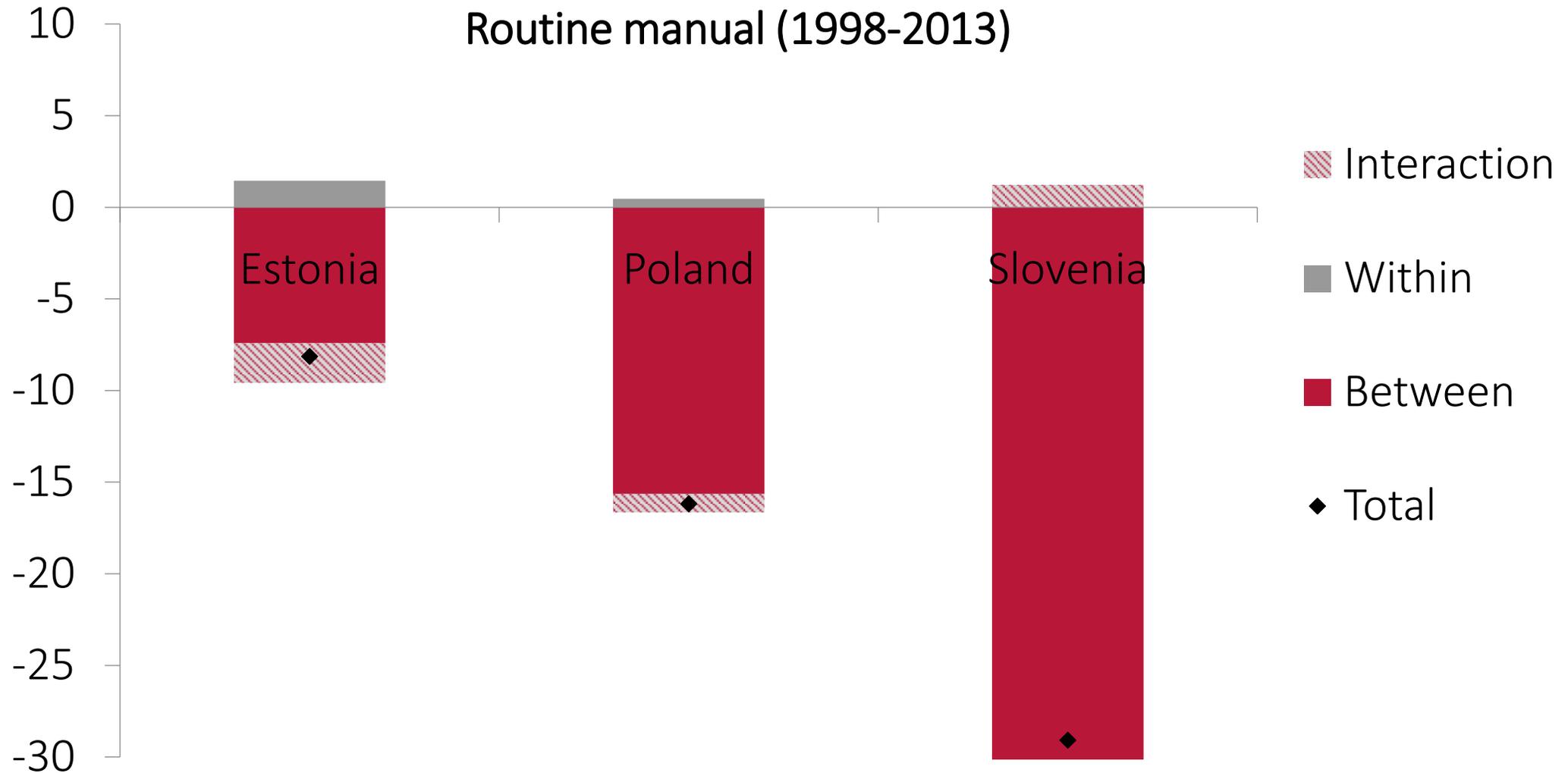
Non-routine cognitive tasks' growth driven by the between effect



Routine cognitive: reduced by the within effect, raised by interaction



Decline in manual tasks driven by the between effect



What was the contribution of different cohorts?

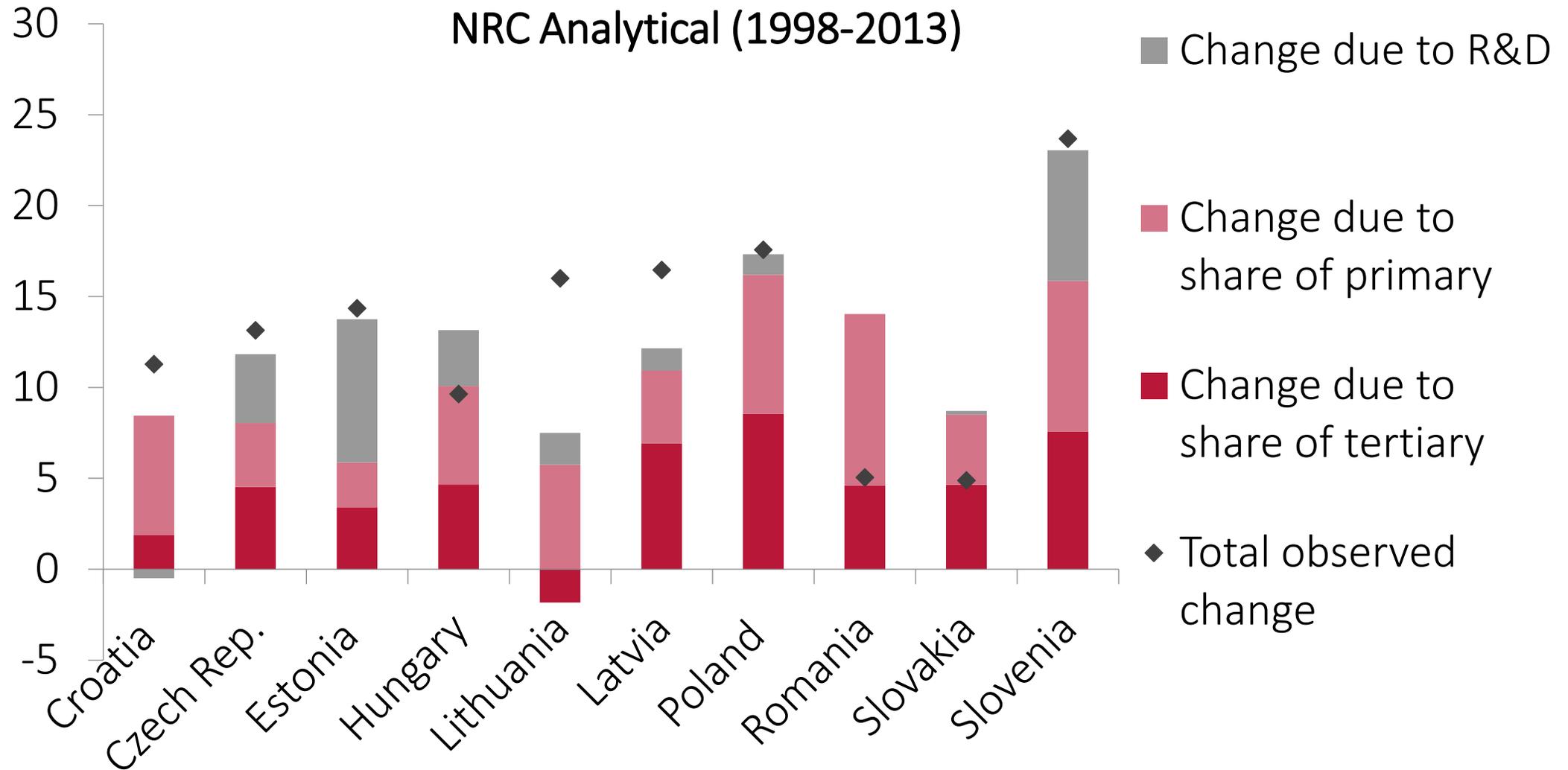


Workforce upgrading supported de-routinisation

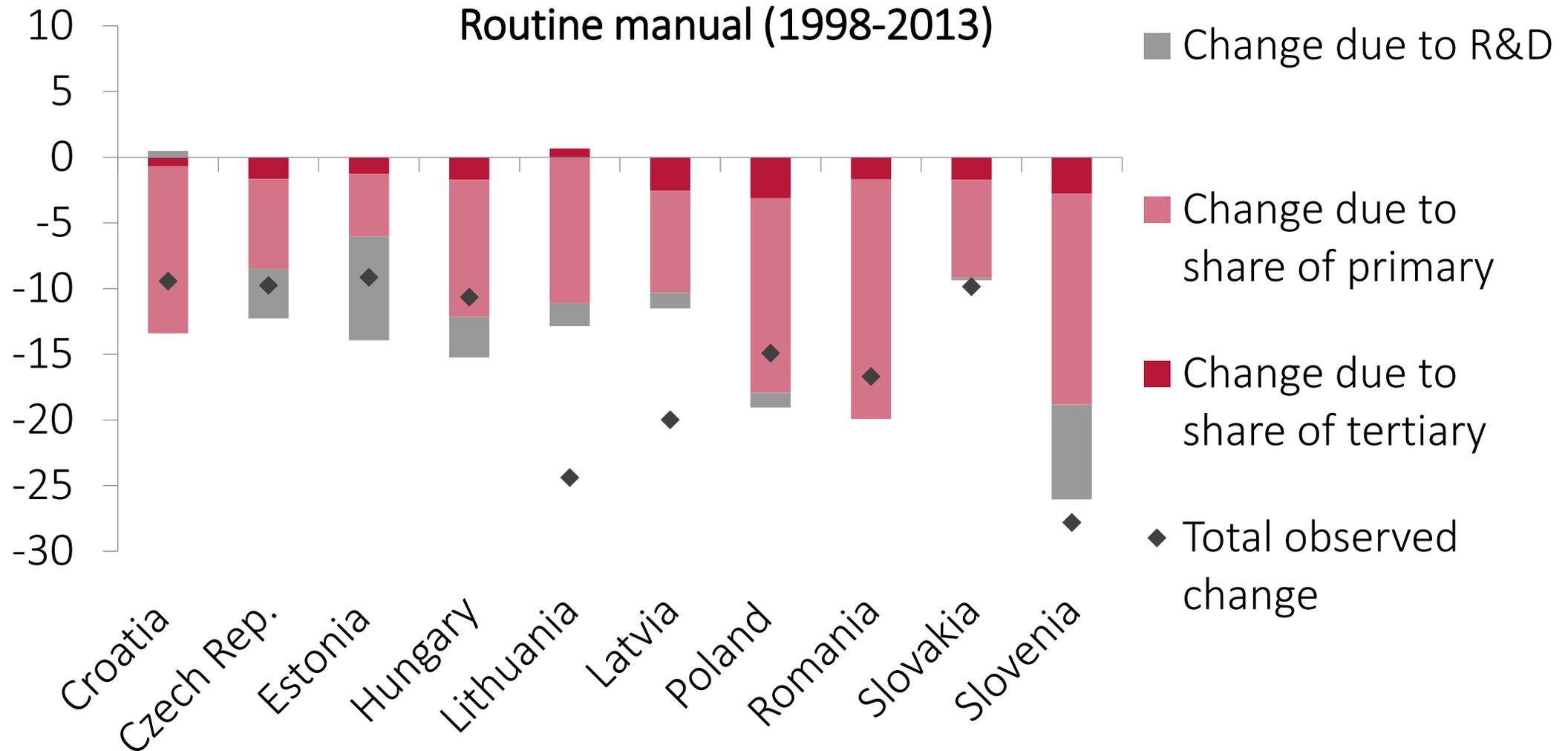


Explaining the evolution of tasks – fixed-effects estimation					
	Non-routine cognitive analytical	Non-routine cognitive personal	Routine cognitive	Routine manual	Non-routine manual physical
Share of tertiary educated	0.46**	0.56***	-0.46***	-0.17**	0.003
Share of primary educated	-0.67	-0.12	-1.17***	1.30***	1.76***
R&D / GDP	0.05***	0.04***	-0.02	-0.05***	-0.04

Workforce upgrading most potent in Poland and Slovenia



Upward shift from primary education -> decline in manual tasks



The evolution of tasks in CEE – challenges



- For how long will the routine cognitive tasks hold firm?
- Intergenerational divide in the evolution of task contents
- Can the workforce upgrading continue to improve task structure?

Thank you for your attention

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