

Regional energy policies & initiatives

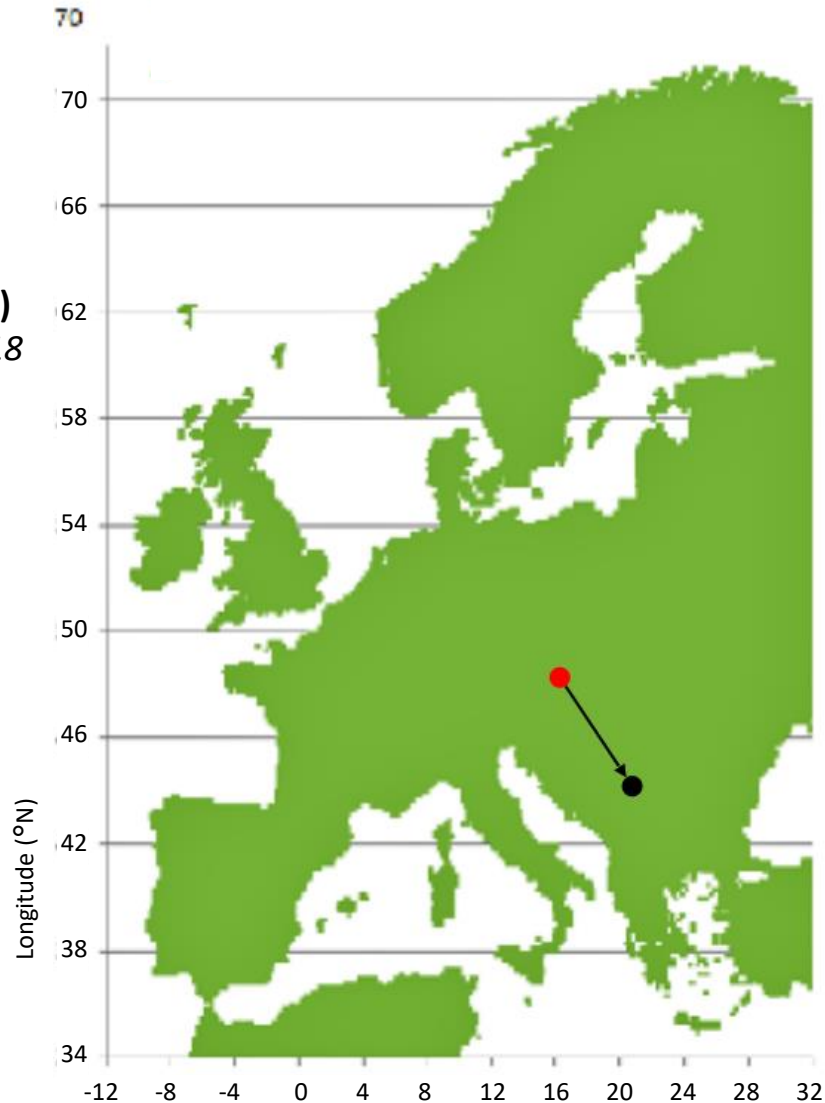
SHREC online seminar - SIEA – October 20, 2020

Juraj Zamkovský

Shift of the climate zone of Slovakia

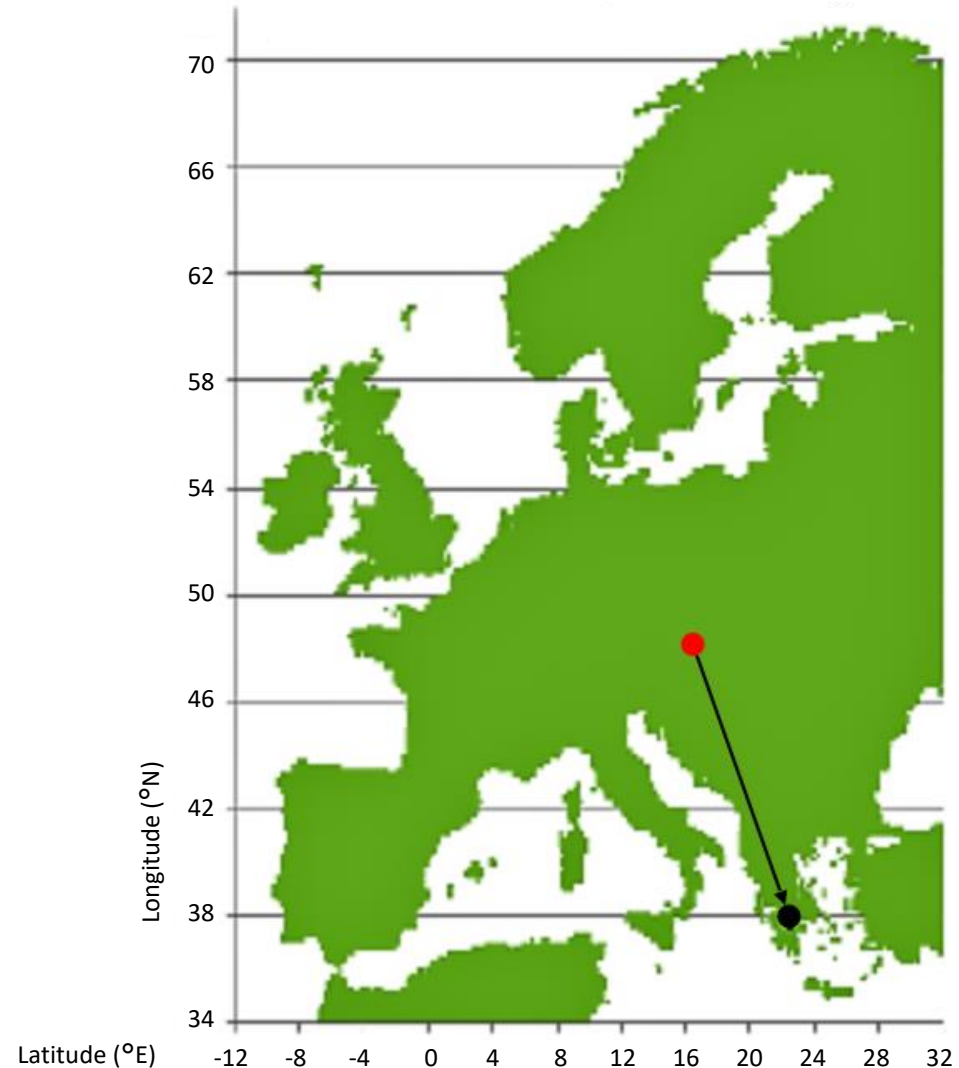
2050

RCP4.5/8.5
($\Delta T +2^{\circ}\text{C}$, $\Delta P +10\%$)
J. Pecho, SHMÚ, 2018

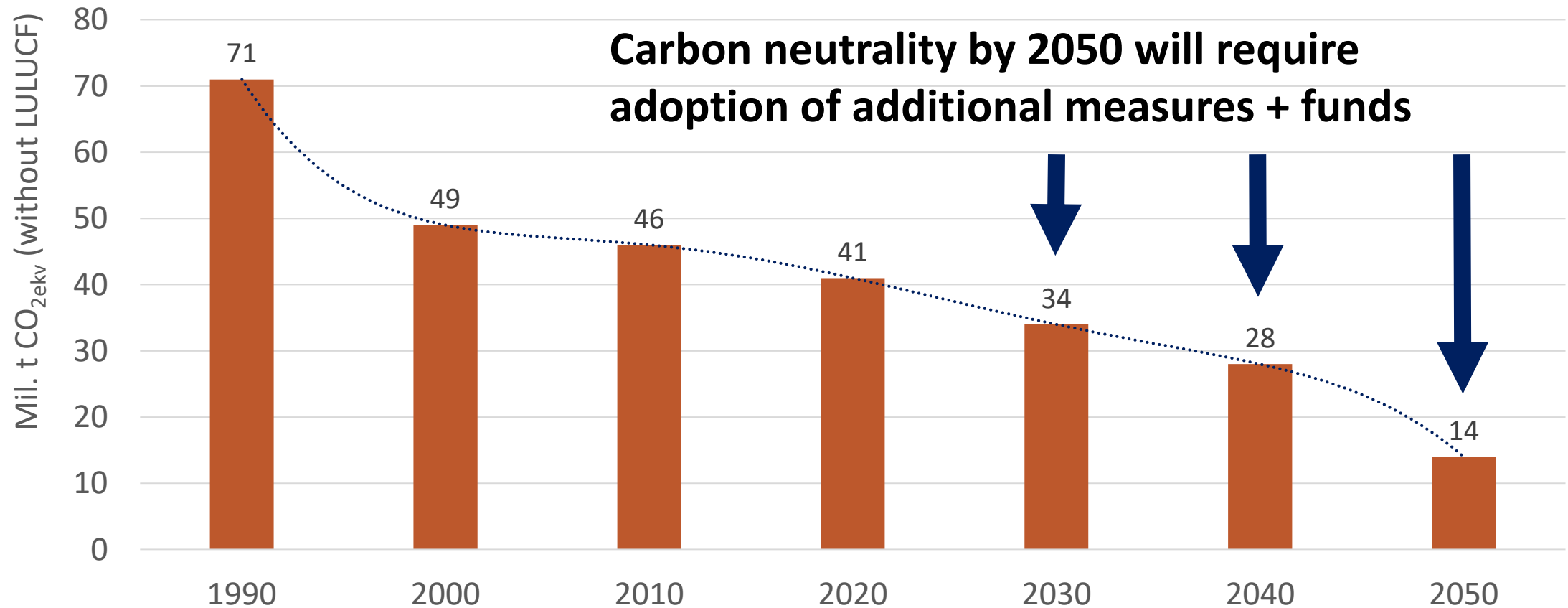


2080

RCP4.5
($\Delta T +2.5^{\circ}\text{C}$, $\Delta P +15\%$)
J. Pecho, SHMÚ, 2018

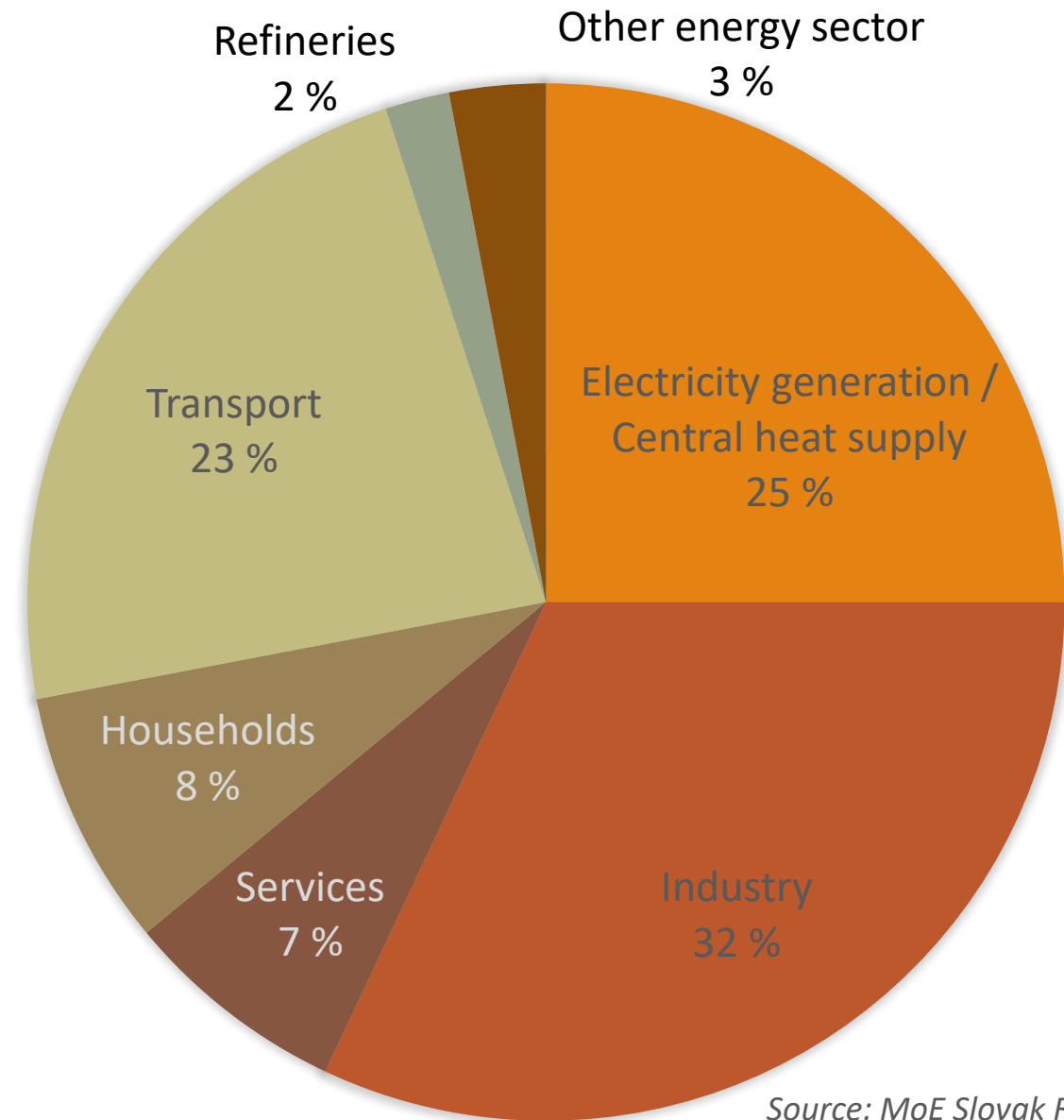


GHG reduction targets of Slovakia



Source: Low carbon development strategy of the Slovak Republic until 2030 with a view to 2050 (2019)

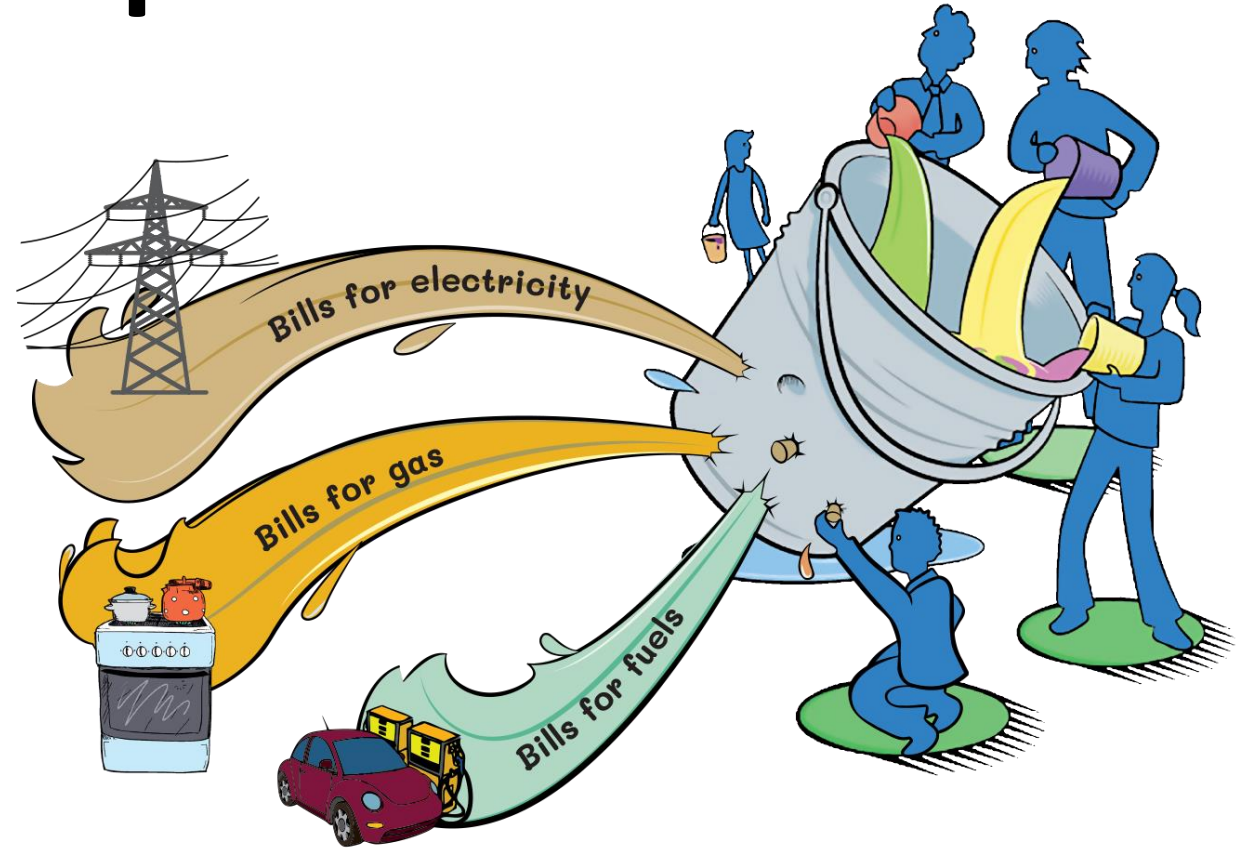
GHG emissions by sectors



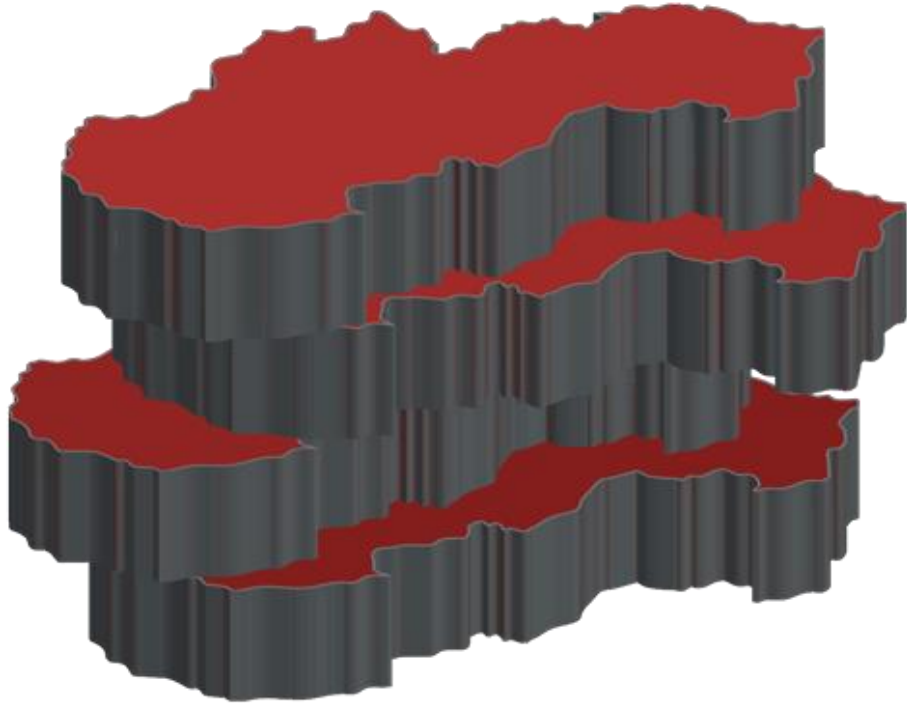
Source: MoE Slovak Republic (2019)

Regional perspective

- Very low climate awareness
- Regional energy policy does not exist
- No personal capacities for regional energy planning
- No methodologies for energy planning available
- Subsidies – major motivator for project development
- Subsidy conditions and indicators are often poorly set



Result – huge energy demand



Present



After optimizing energy needs

Pilot regional initiatives

- 2017 – 2019: Sustainable Energy Centers in 3 lagging regions
- Pilot low-carbon strategies are being developed
- New methodologies tested
- A set of analyses prepared (readiness of municipalities for energy planning, working with information, opinion polls, role of school system and media, etc.)
- Outline of regional energy information system proposed
- Evaluation of experiences, mistakes and challenges will be made in early 2021



→ **valuable information for building conditions
for a future regional energy planning system in Slovakia**

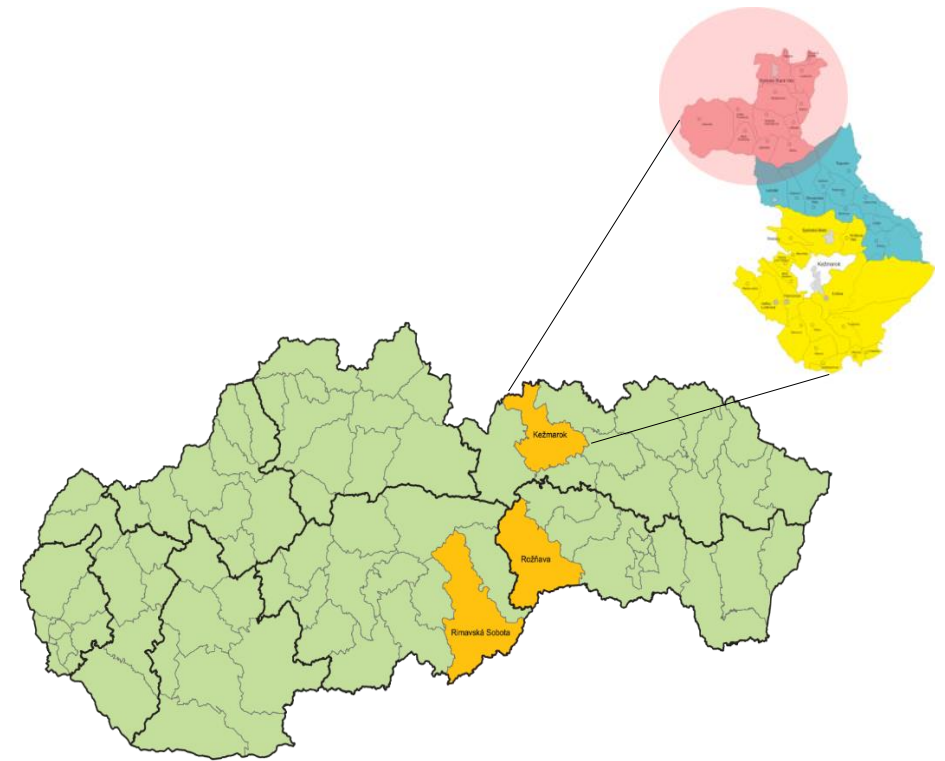
Low carbon strategies summary and findings

*(example: Zamağurie region,
E-N Slovakia)*

13 municipalities / 6,000 inhabitants

Rural area, no major industry

Category 'lagging region'



Summary

Extensive research and analysis in 4 sectors:

Buildings (all residential, administrative, school, health, private and public)

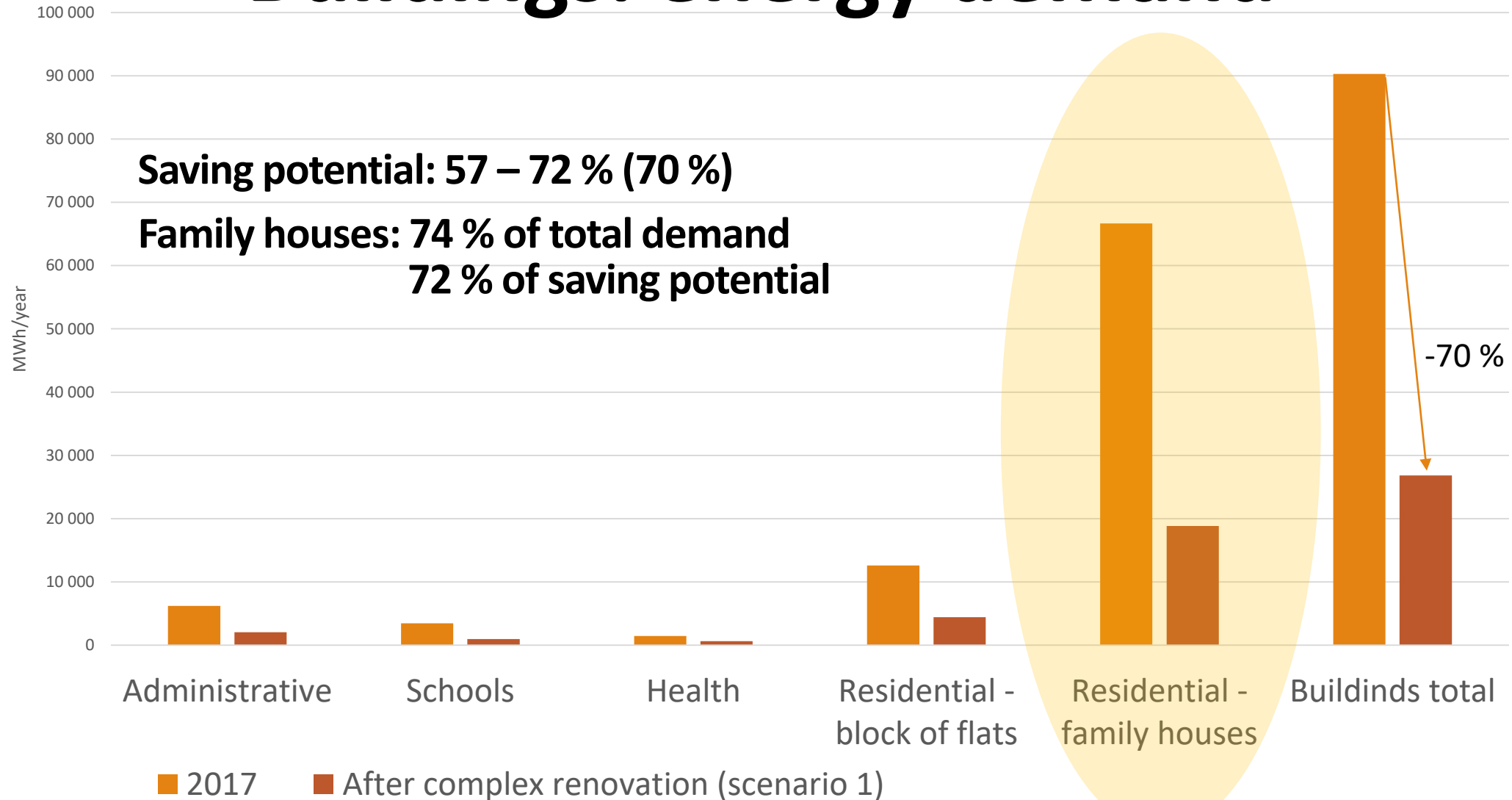
Transport (individual and public)

Public lighting

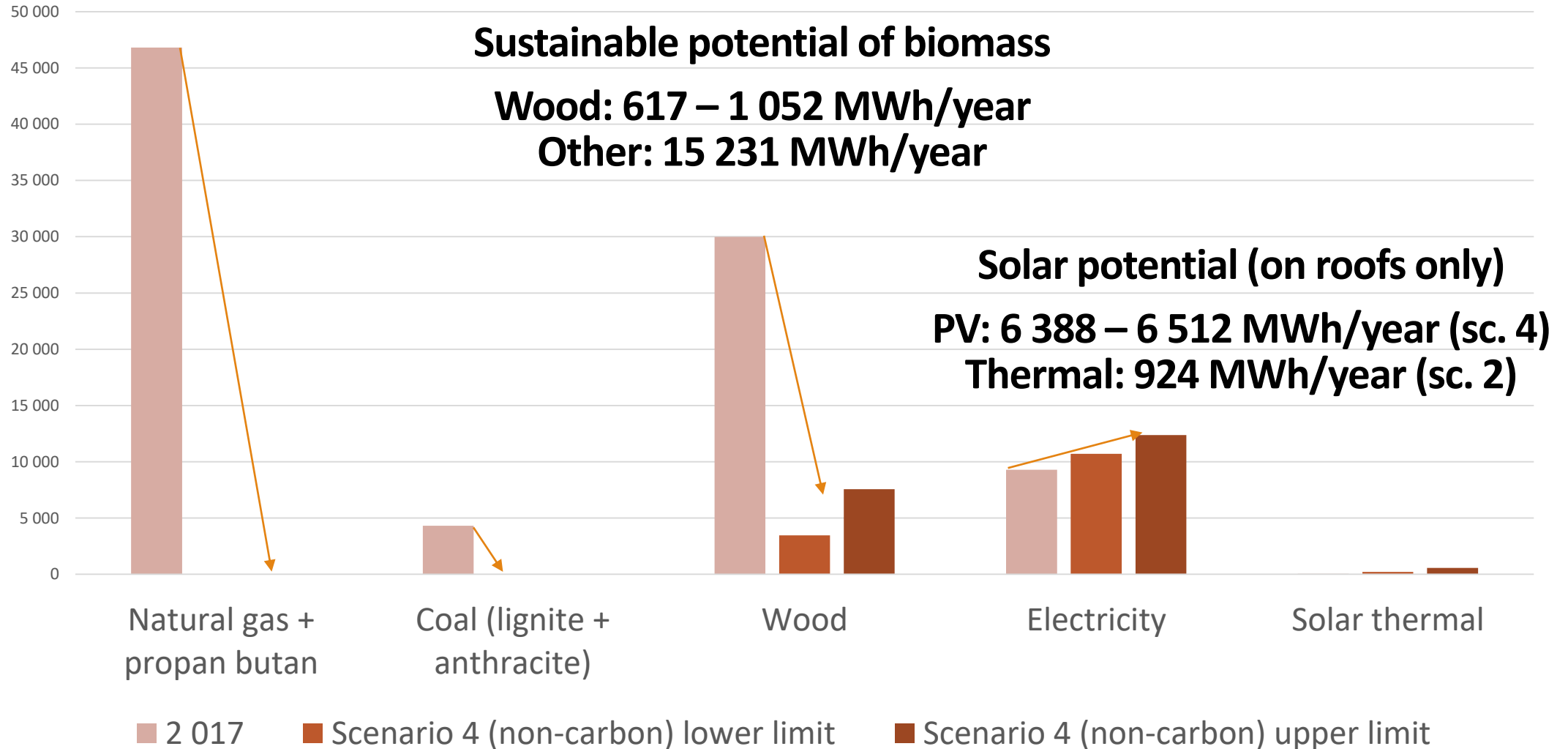
Energy industry (commercial production of heat, electricity or fuels)

- **annual energy demand/consumption**
- **annual need for different types of fuels / energy**
- **annual CO₂ and other pollutant emissions**
- **annual leakage of money from the region (imported fuels and energy)**

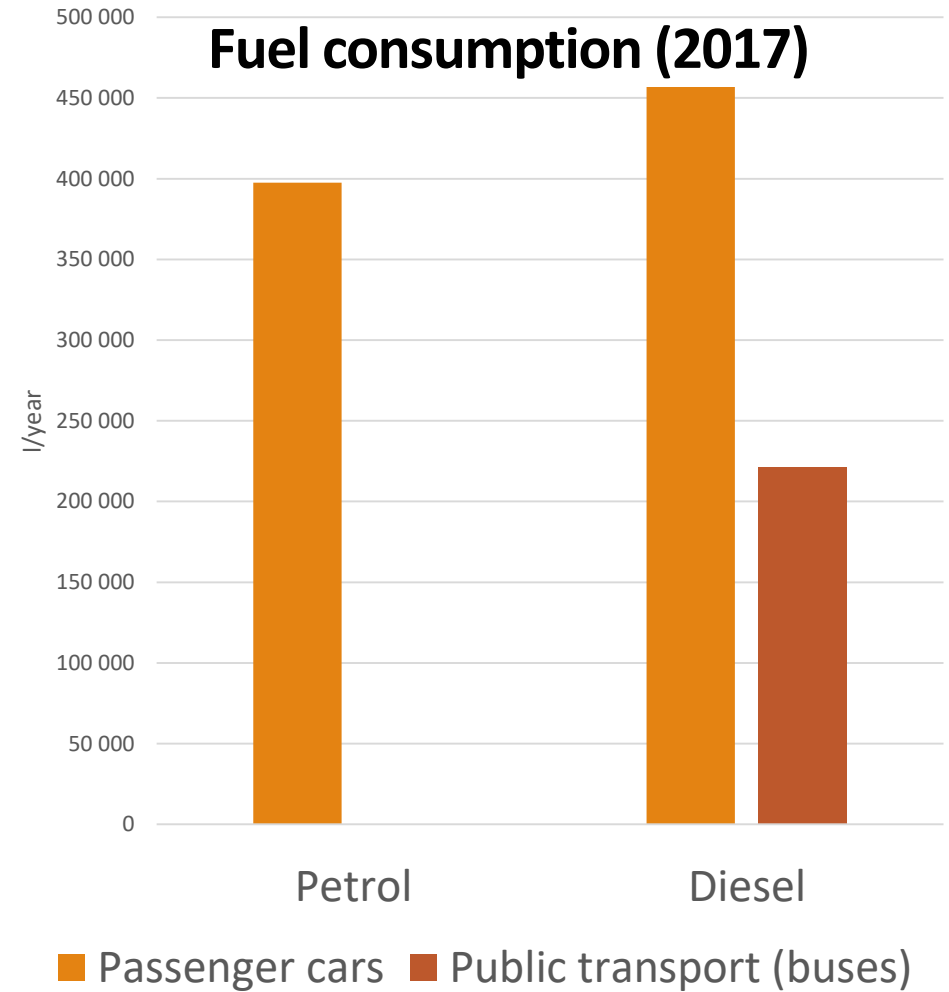
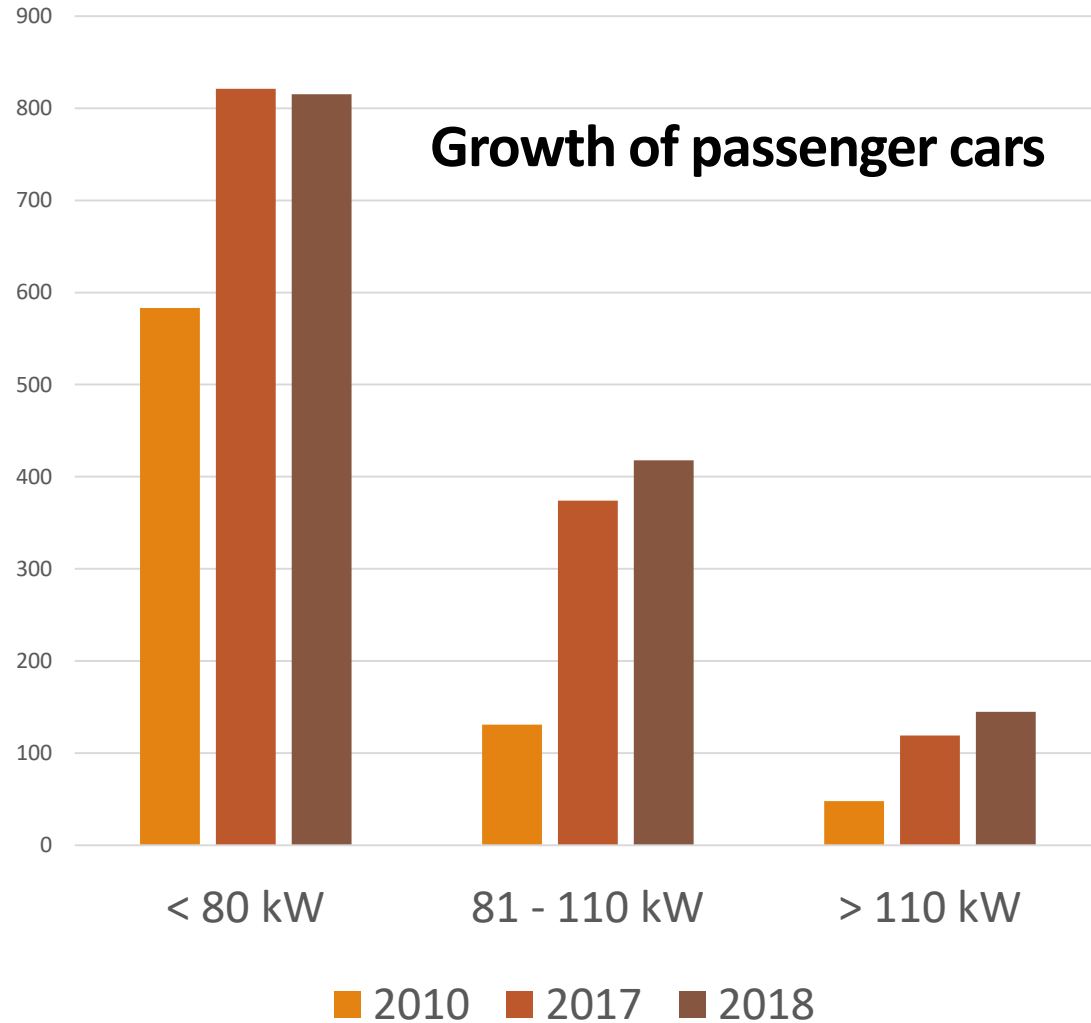
Buildings: energy demand



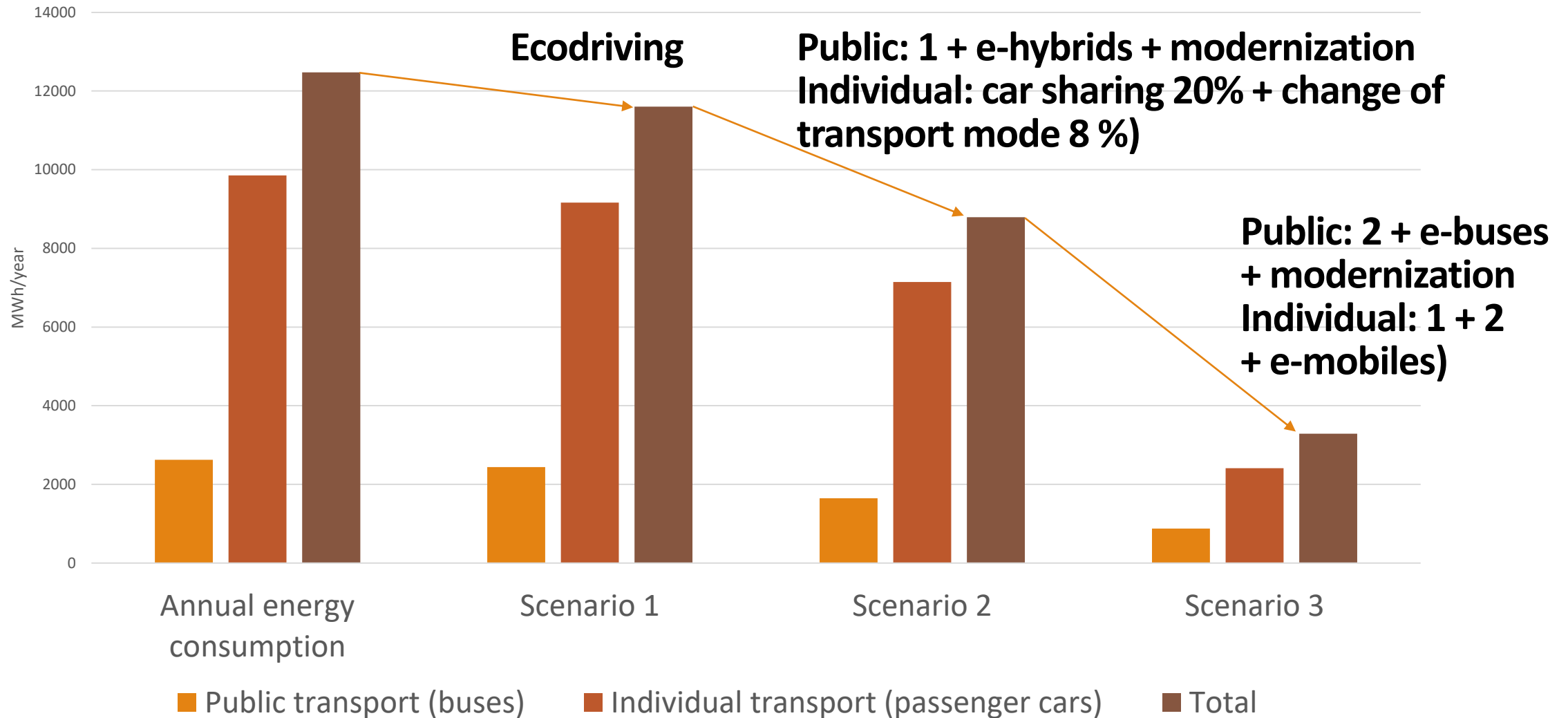
Fuel mix: non-carbon scenario



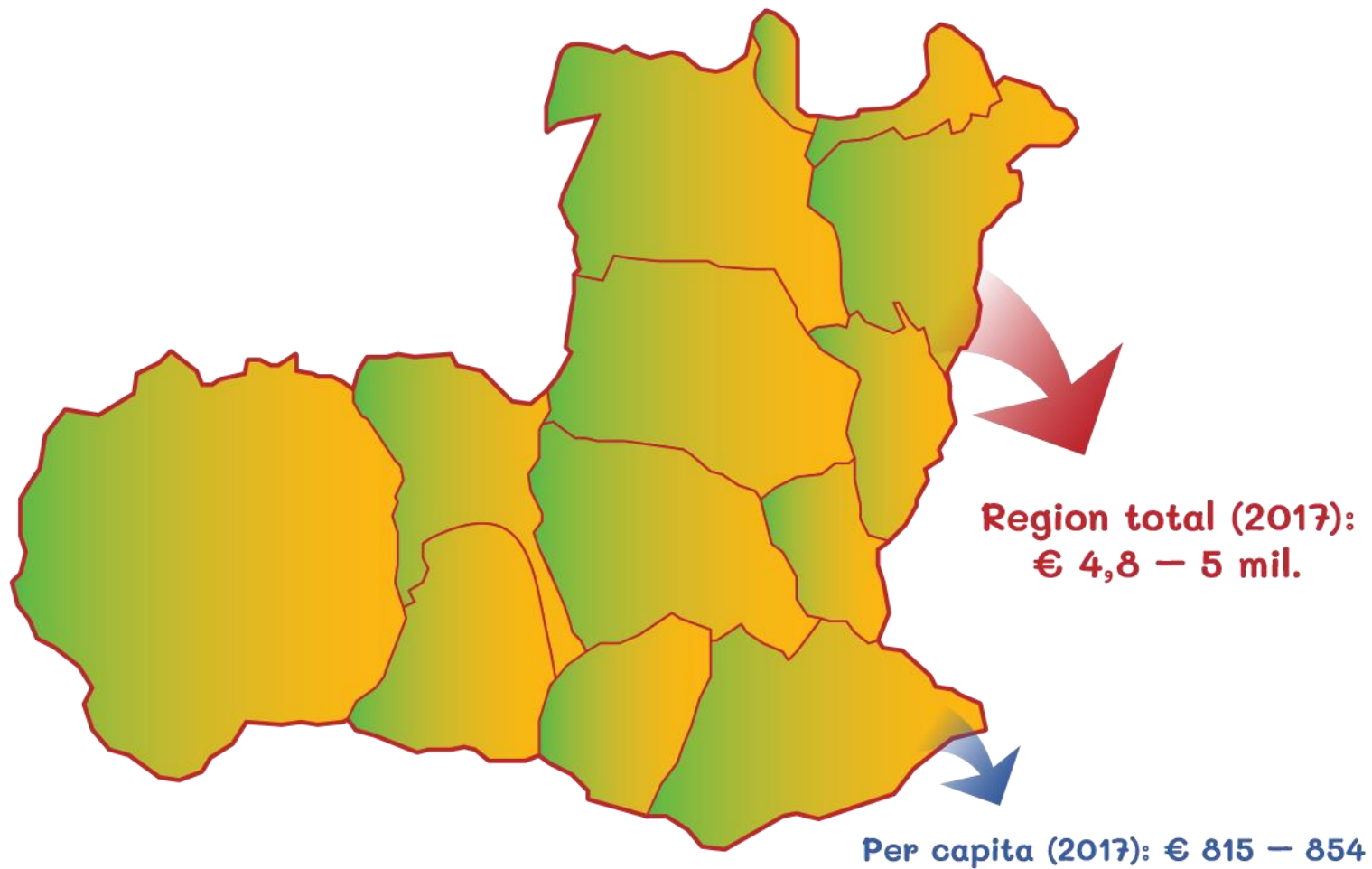
Transport in the region



Transport: potential of savings



Annual leakage of money (imports)



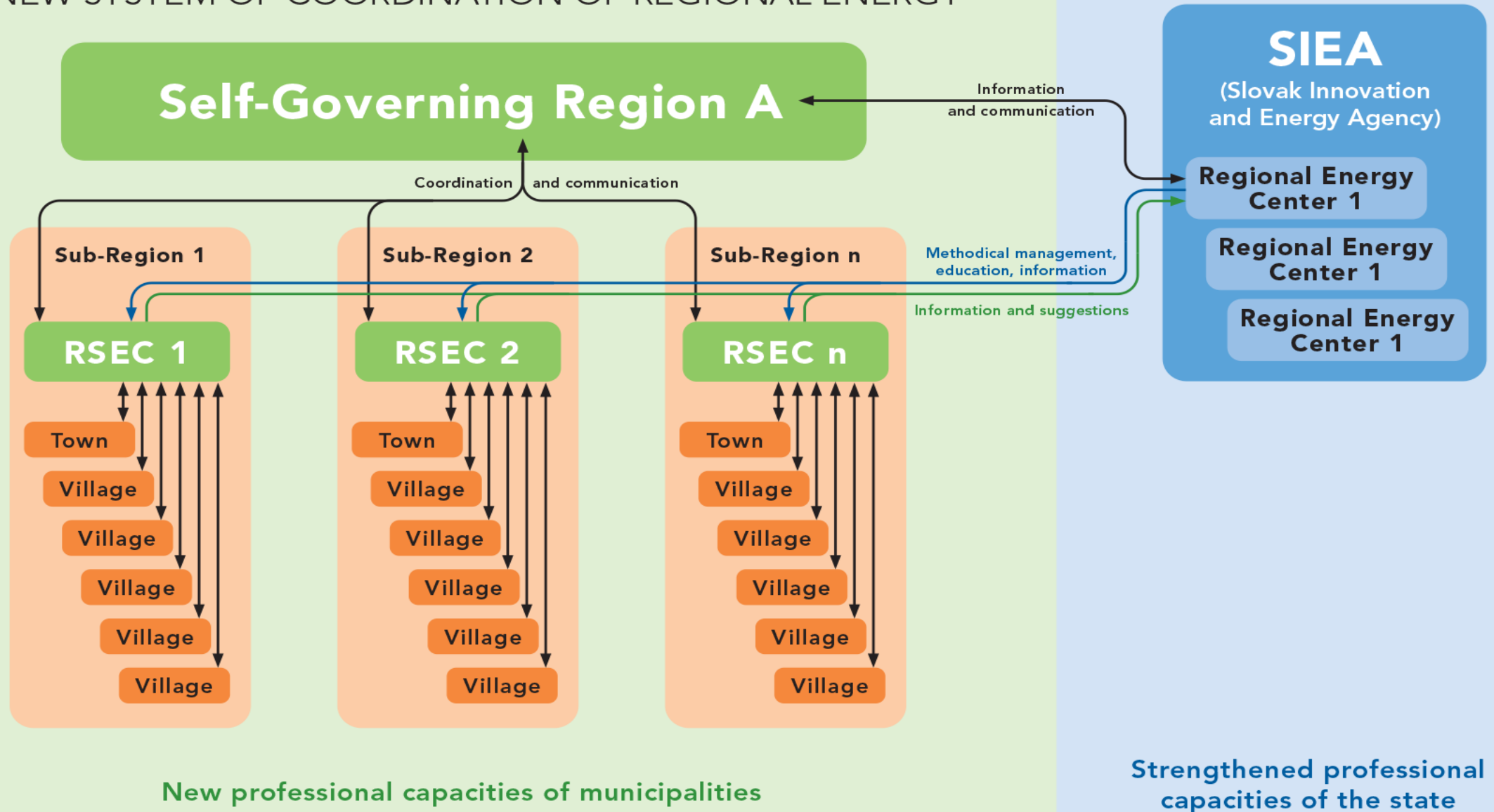
Systemic regional energy planning as necessary precondition for meeting national energy targets

Proposal

Regional energy planning/coordination

Level	Title	Basic tasks	Sector
Regional	Regional Energy Centers	<ul style="list-style-type: none"> • Support for transposition of national targets to lower levels, monitoring & reporting • Management of integrated informational energy system • Support for regional planning (methodology, quality control) 	State: SIEA (Ministry of Economy)
	Energy Units (regional gov'ts)	<ul style="list-style-type: none"> • Territorial harmonization of energy planning • Energy management at the level of self-governing regions 	Self-governing regions (8)
Sub-regional	Regional Sustainable energy Centers (RSECs)	<ul style="list-style-type: none"> • Development and implementation of low carbon strategies • Support services to local governments within subregions • Support for development of priority subregional projects • Transfer of experience, information and good practices • Support of energy/climate education 	Organization with a mandate of local municipalities (appr. 58)
Local	Municipal energy managers	<ul style="list-style-type: none"> • Optimization of local energy demand and consumption • Effective management of municipal property • Development and implementation of local projects 	Towns and villages (2 927)

THE PLACE OF **REGIONAL SUSTAINABLE ENERGY CENTERS (RSECs)** IN THE NEW SYSTEM OF COORDINATION OF REGIONAL ENERGY



Challenges

- Broad **promotion** of the new regional energy planning infrastructure
- Extensive **dialogue** among key stakeholders on proper administrative structure
- Clear **division of tasks** and responsibilities among different levels
(+ linking RSECs with issues/structures focused on climate adaptation, circular economy...)
- Development of new **methodologies** for RSECs
- Preparation of professional capacities (**before** establishment of RSECs)
- Preparation of continuous education of RSECs professionals (**after** establishment of RSECs)
- **Selection** of the most prepared subregions for the 1st phase

Thanks for paying attention!

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