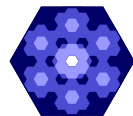


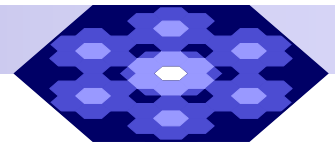
# Inner structure of functional region

**Martin Erlebach**  
**Pavel Klapka**  
**Marián Halás**  
**Petr Tonev**



**CENARS**

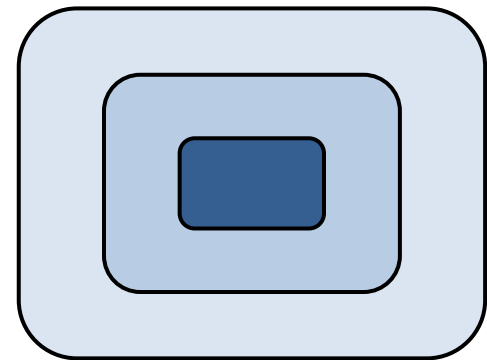
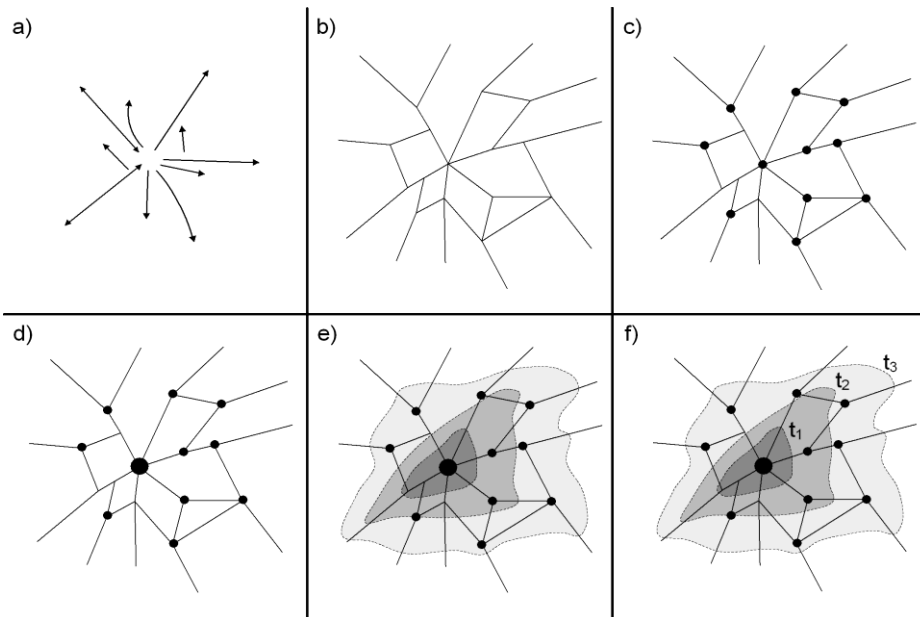
Centre for Analysis of Regional Systems  
[cenars.upol.cz](http://cenars.upol.cz)

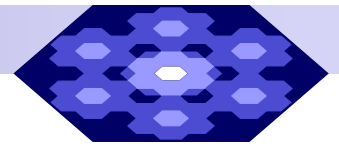


## Approaches to inner structure of functional region

### ■ 1) „Traditional“ approaches

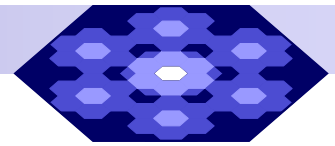
- *Inspired by a core – periphery concept*
- *Based on the level of cohesion between building parts of a region, which is given by a different intensity of horizontal interactions*
- *Direction and orientation of links is of the primary importance*





## *Approaches to inner structure of functional region*

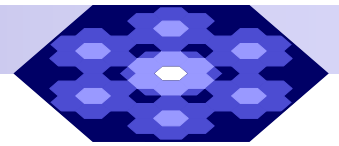
- **2) Approaches based on a set of selected criteria**
  - *A number of basic spatial units that qualify as cores (a number of cores)*
  - *Hierarchical position (level) of cores*
  - *Nature of relations between cores*



## *Theoretical relations within functional region*

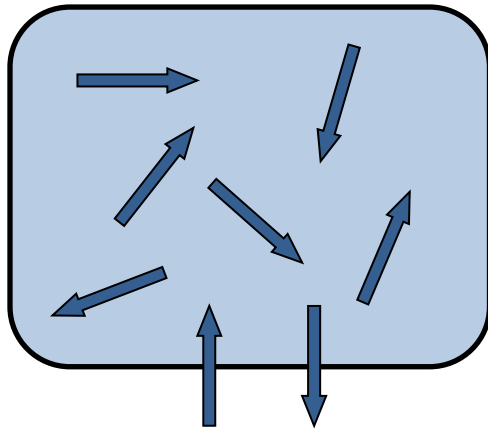
### ■ **1) A number of cores criterion**

- *Functional region has no core, interactions are random (a).*
- *Functional region has 1 core, interactions are directed at the core (b).*
- *Functional region has 1 multiple core consisting of more BSUs, their spatial contiguity is required (c).*
- *Functional region has more cores, interaction are directed at the cores, relations between the cores are neutral (d).*

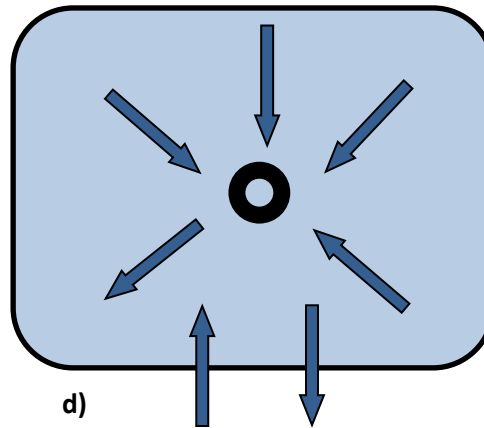


# *Theoretical relations within functional region – a number of cores criterion*

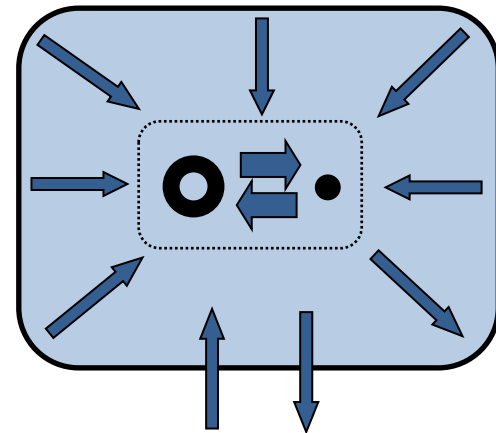
a)



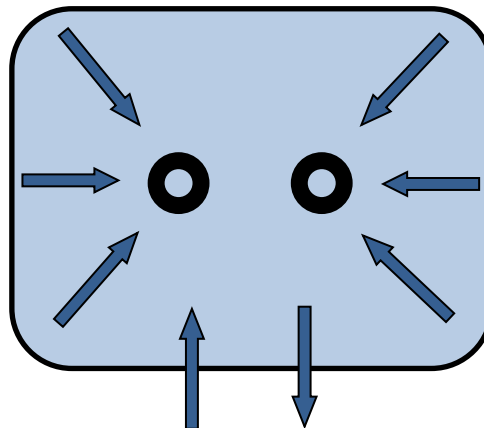
b)

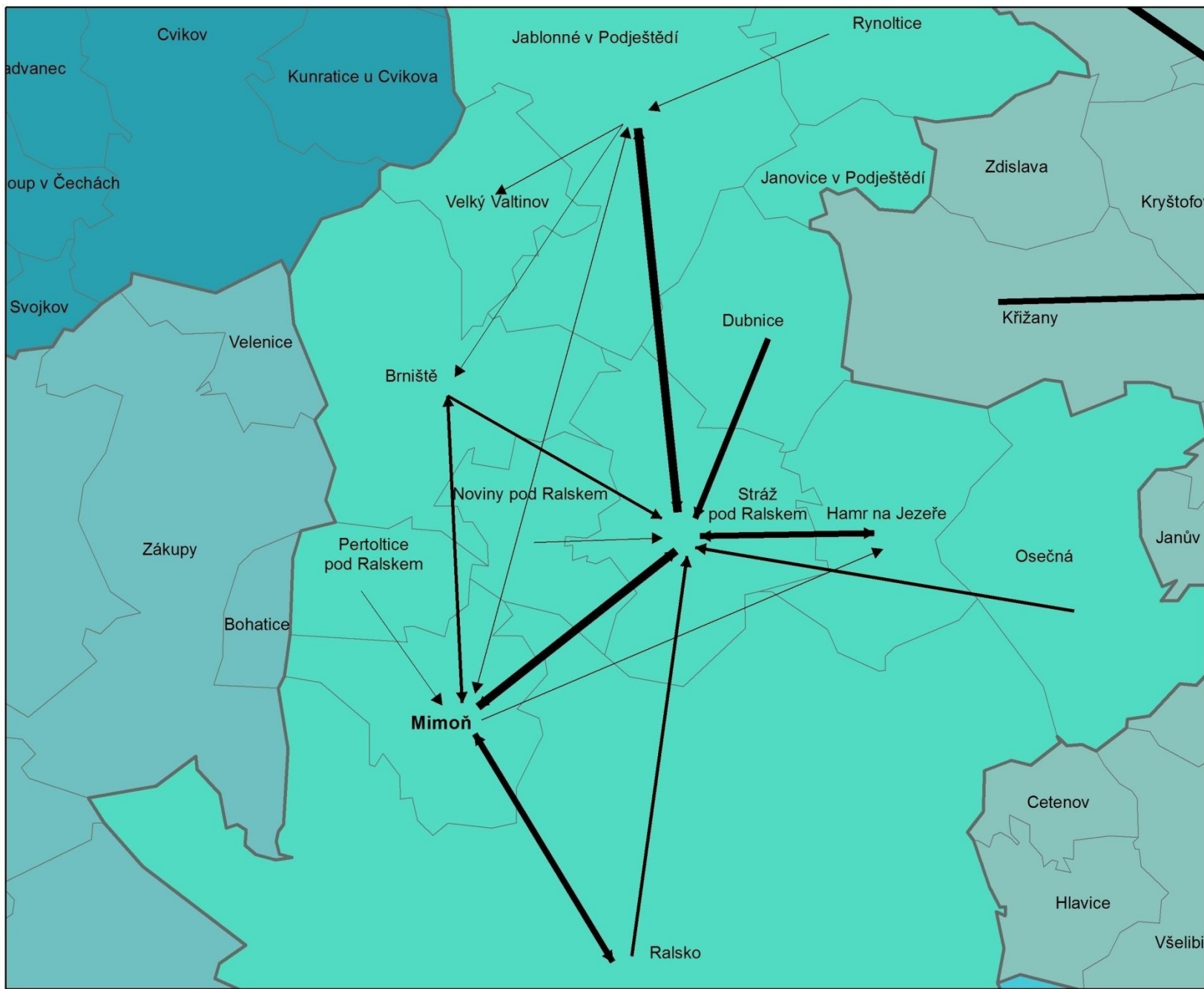


c)



d)

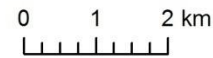




**intenzita toků  
(počet osob)**

- 0 - 50
- 51 - 70
- 71 - 110
- 111 a více

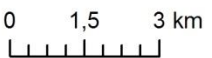
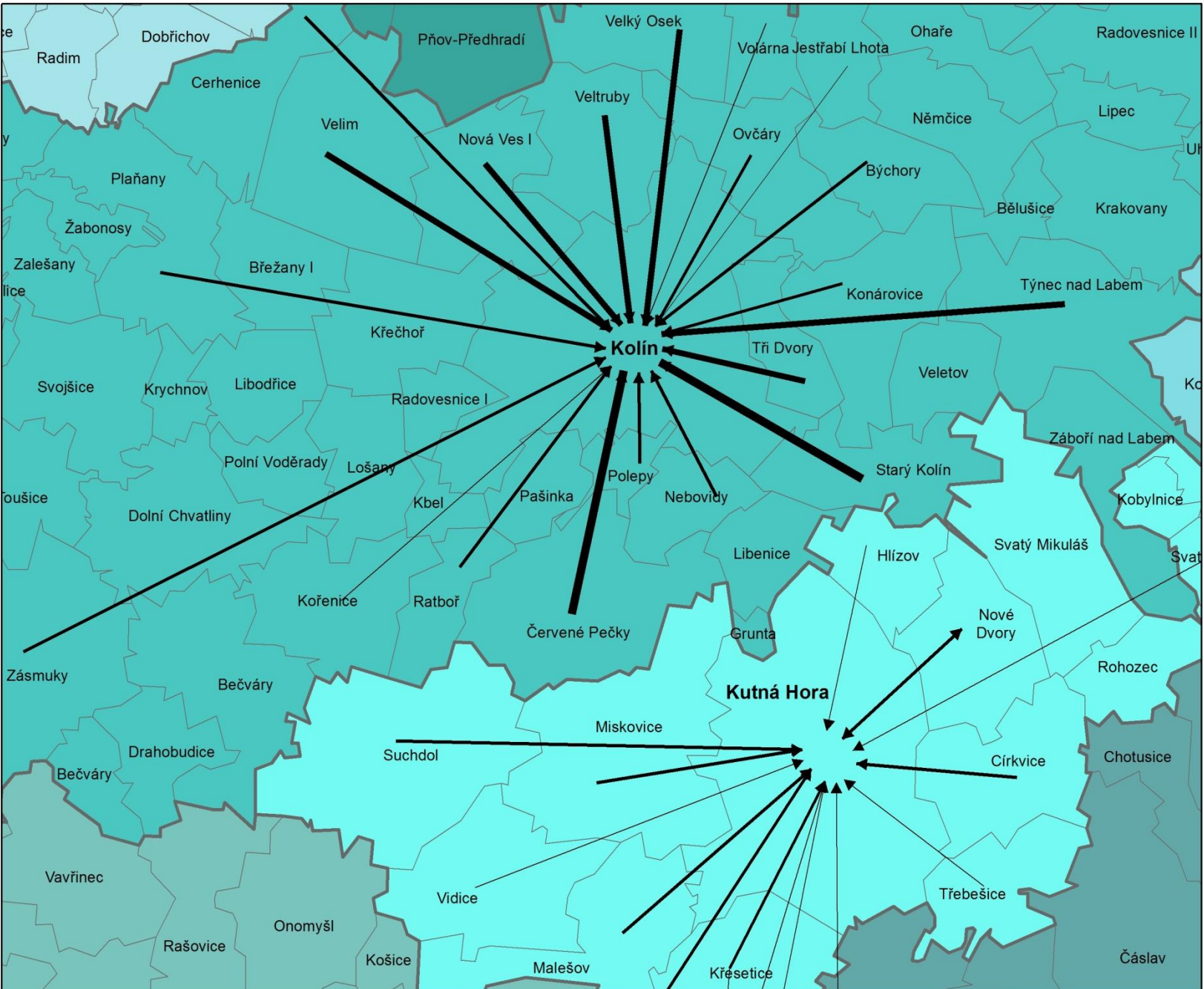
- hranice LLMA
- hranice obce



**intenzita toků  
(počet osob)**

- 0 - 100
- 101 - 200
- 201 - 300
- 301 a více

- ▭ hranice LLMA
- ▭ hranice obce

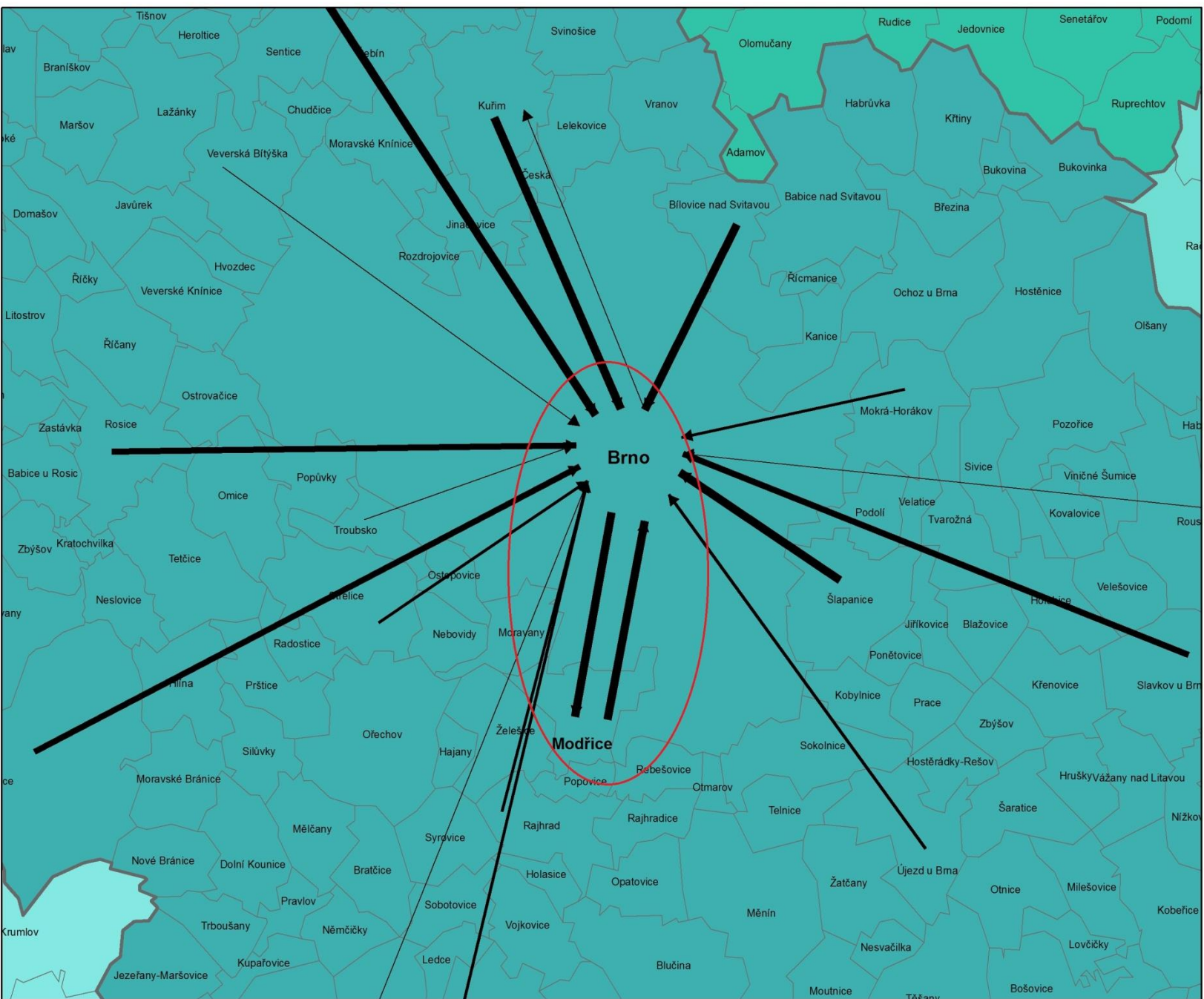
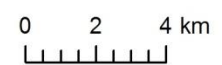




# intenzita toků (počet osob)

- 0 - 500
- 501 - 600
- 601 - 800
- 801 a více

- ▭ hranice LLMA
- ▭ hranice obce

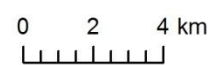
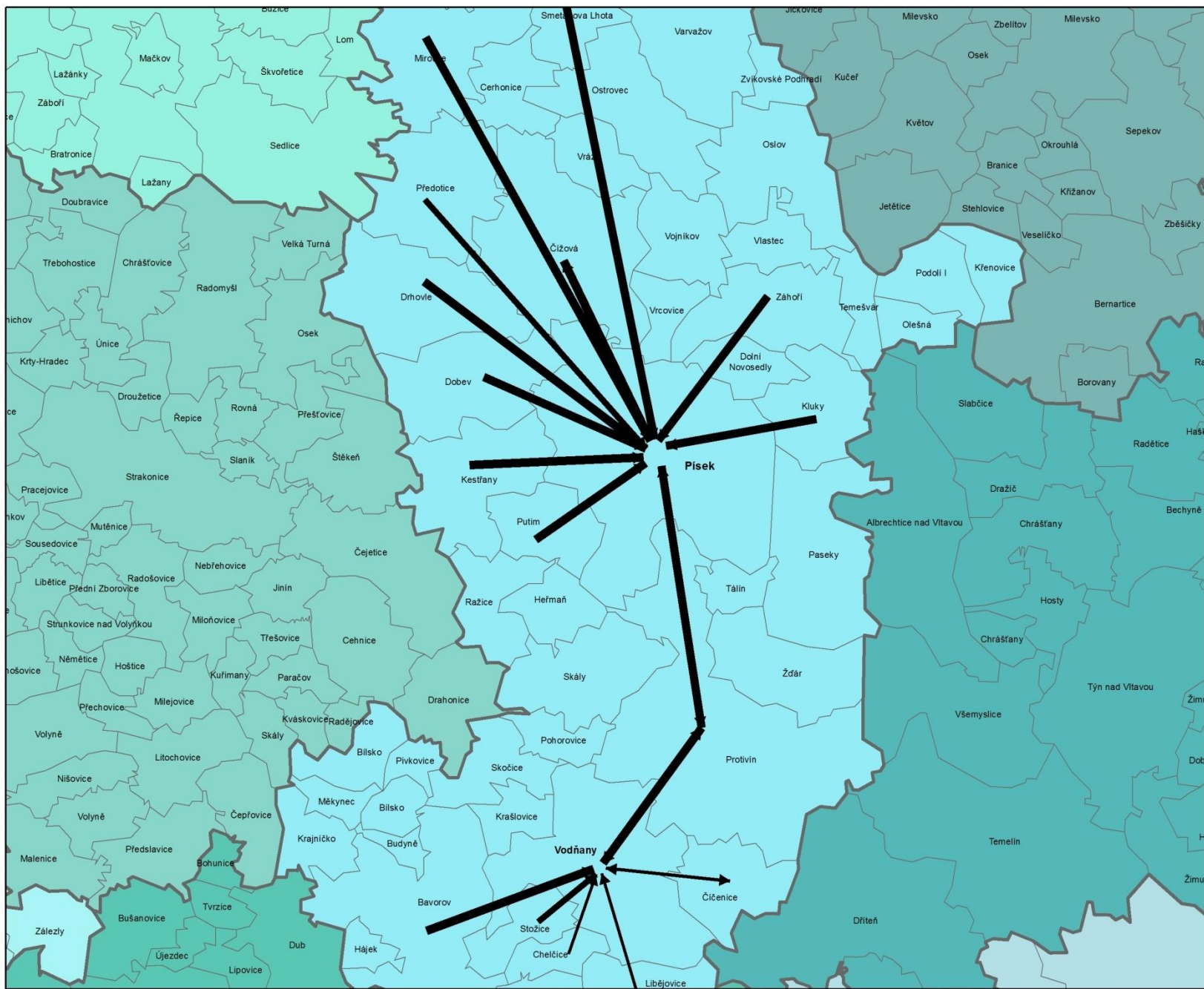


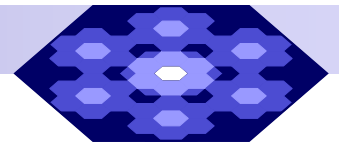


# intenzita toků (počet osob)

- 0 - 40
- 41 - 60
- 61 - 80
- 81 a více

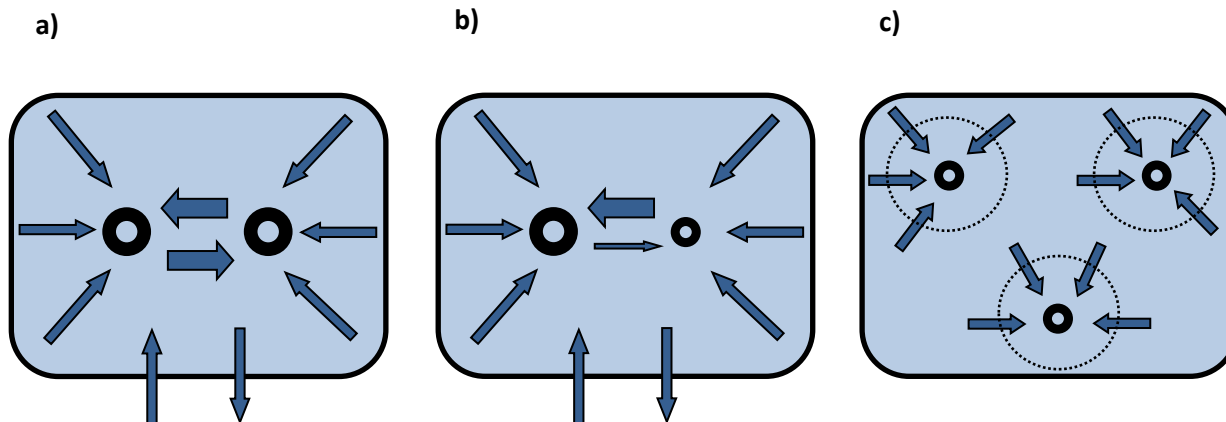
- ▭ hranice LLMA
- ▭ hranice obce





## *Theoretical relations within functional region*

- **2) Criterion of hierarchical level of cores**
- *The same hierarchical level of cores. **Cooperational** relations between cores (a).*
- *Different hierarchical level of cores. **Complementary** relations between cores (b).*
- *A multiple core region consisting of relatively self-contained sub-regions of insufficient size (c).*



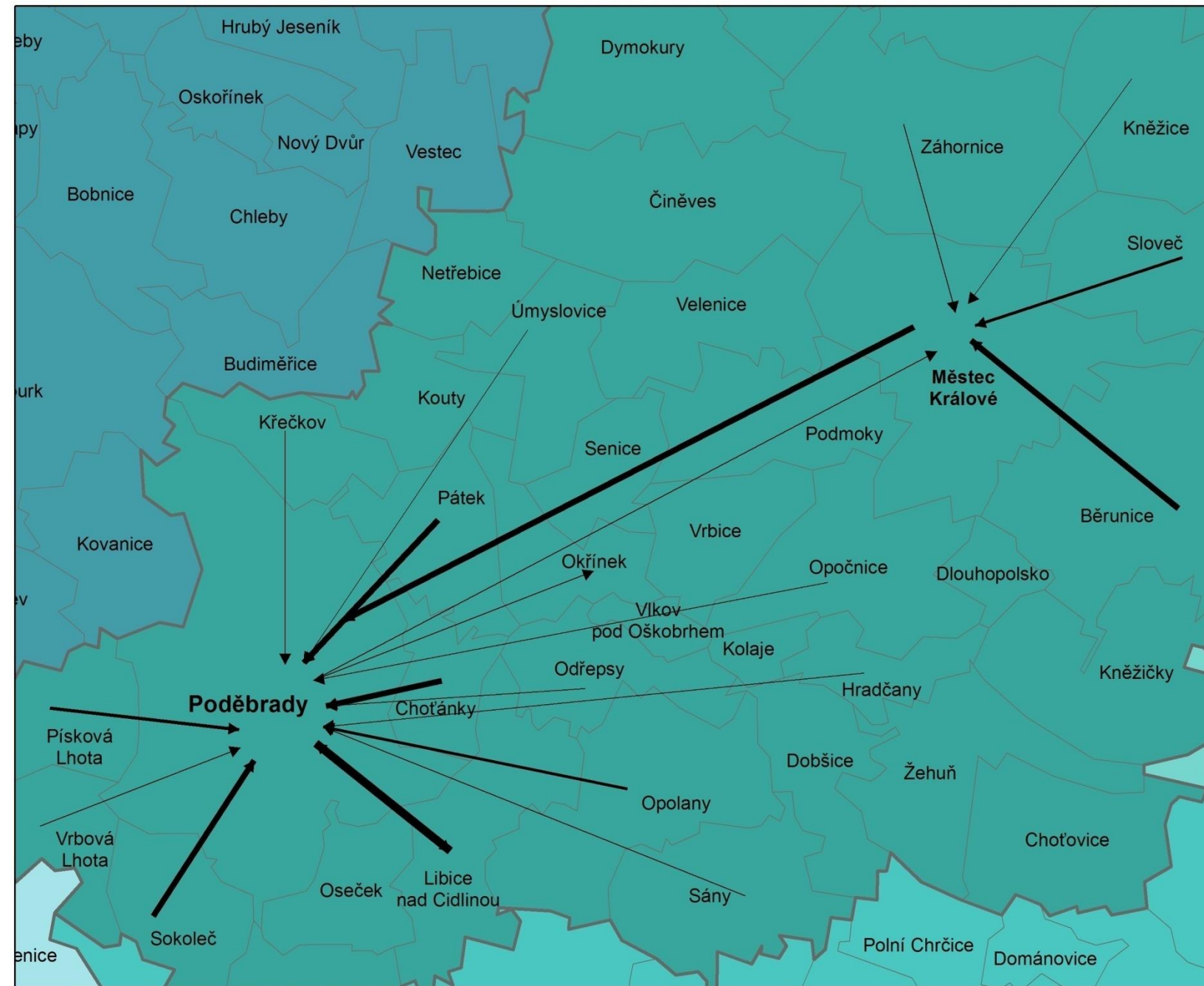
**intenzita toků  
(počet osob)**

- 0 - 50
- 51 - 100
- 101 - 150
- 151 a více

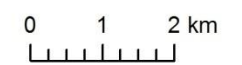
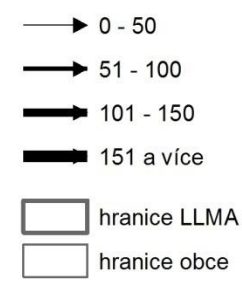
- hranice LLMA
- hranice obce







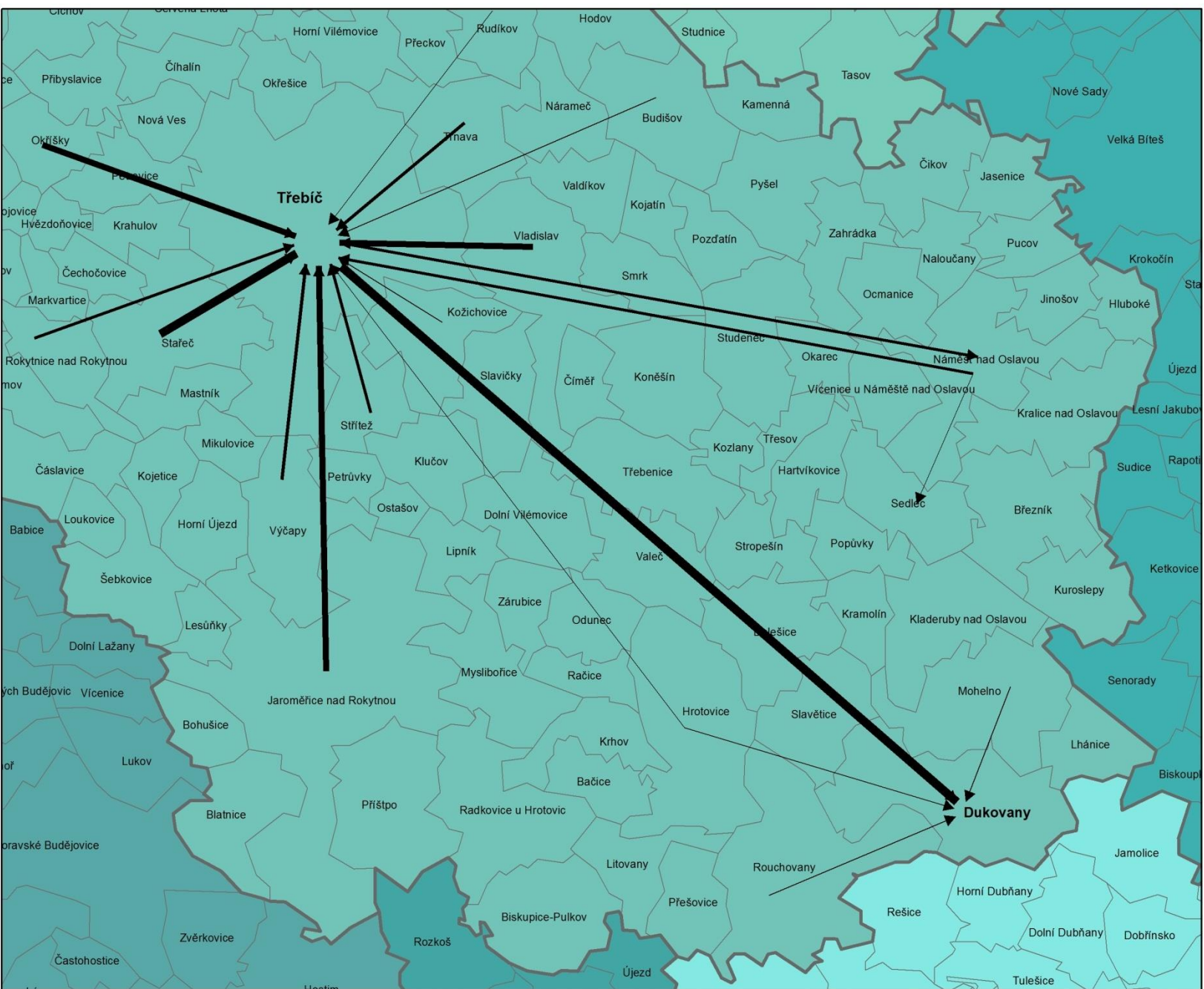
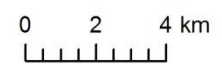
### intenzita toků (počet osob)



# intenzita toků (počet osob)

- 0 - 100
- 101 - 200
- 201 - 300
- 301 a více

- ▭ hranice LLMA
- ▭ hranice obce



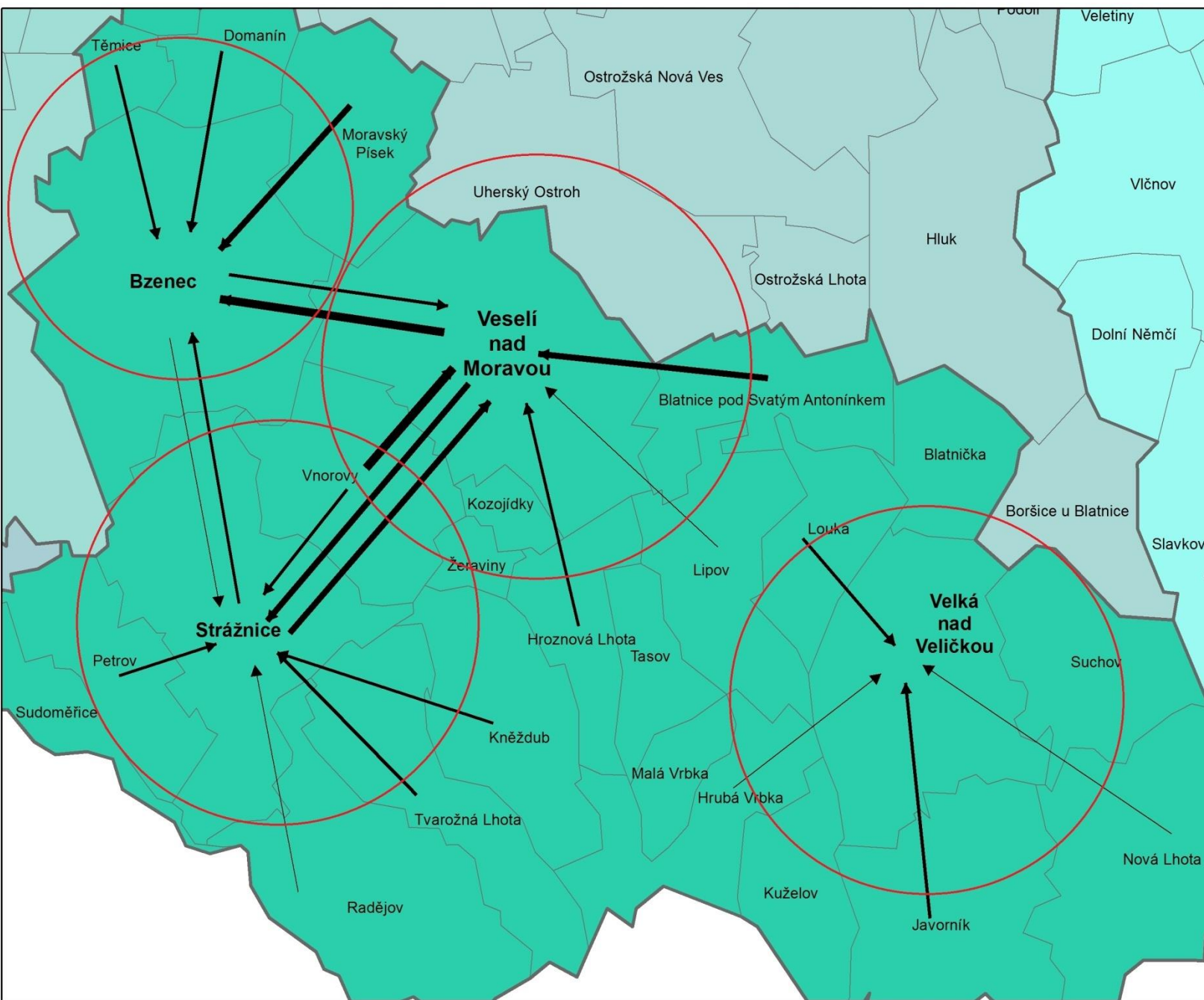


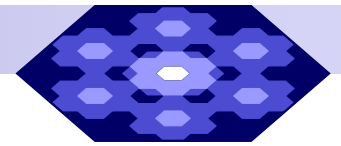
# intenzita toků (počet osob)

- 0 - 100
- 101 - 150
- 151 - 200
- 201 a více

- ▭ hranice LLMA
- ▭ hranice obce

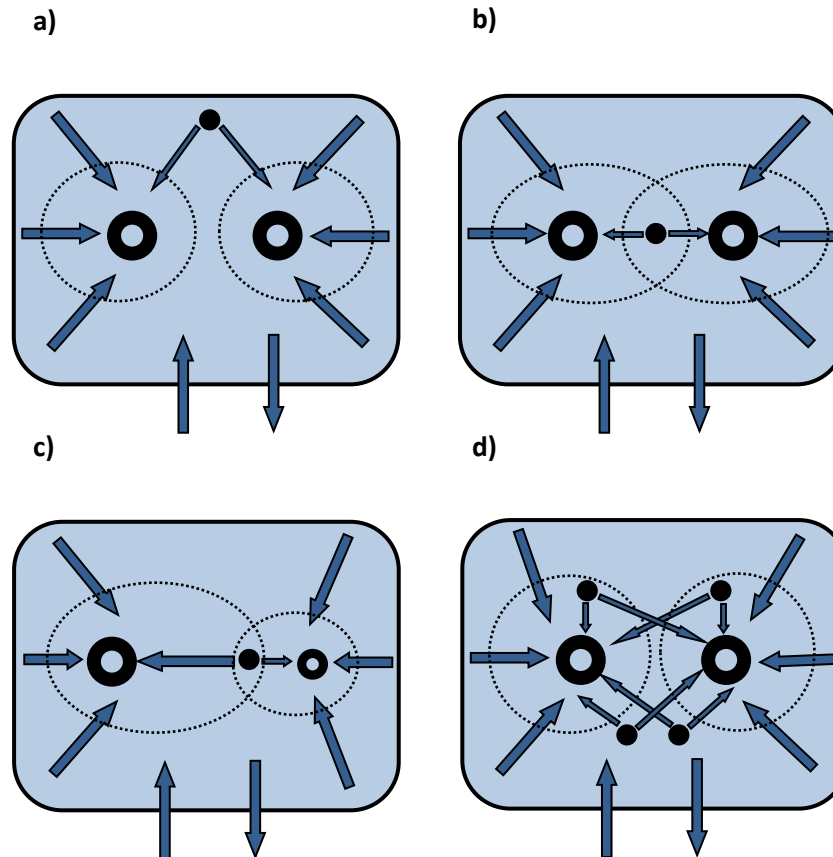
0 1,5 3 km





## *Theoretical relations within functional region*

- **3) Criterion of interactions between cores and BSUs**  
– **competing relations between cores**



# intenzita toků (počet osob)

→ 0 - 40

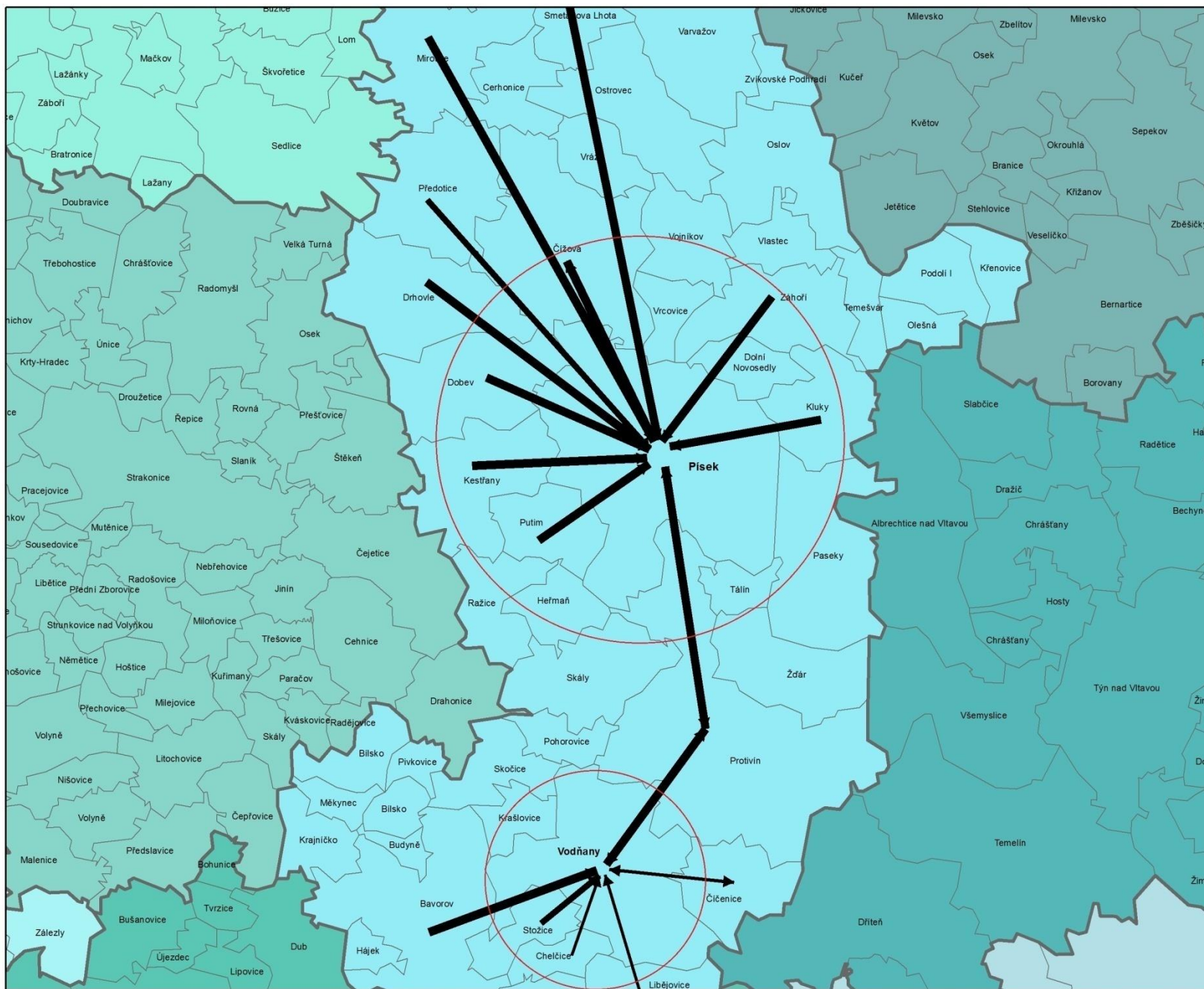
→ 41 - 60

→ 61 - 80

→ 81 a více

▭ hranice LLMA

▭ hranice obce

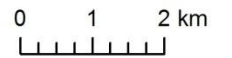




**intenzita toků  
(počet osob)**

- 0 - 50
- 51 - 100
- 101 - 150
- 151 a více

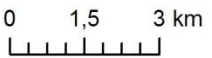
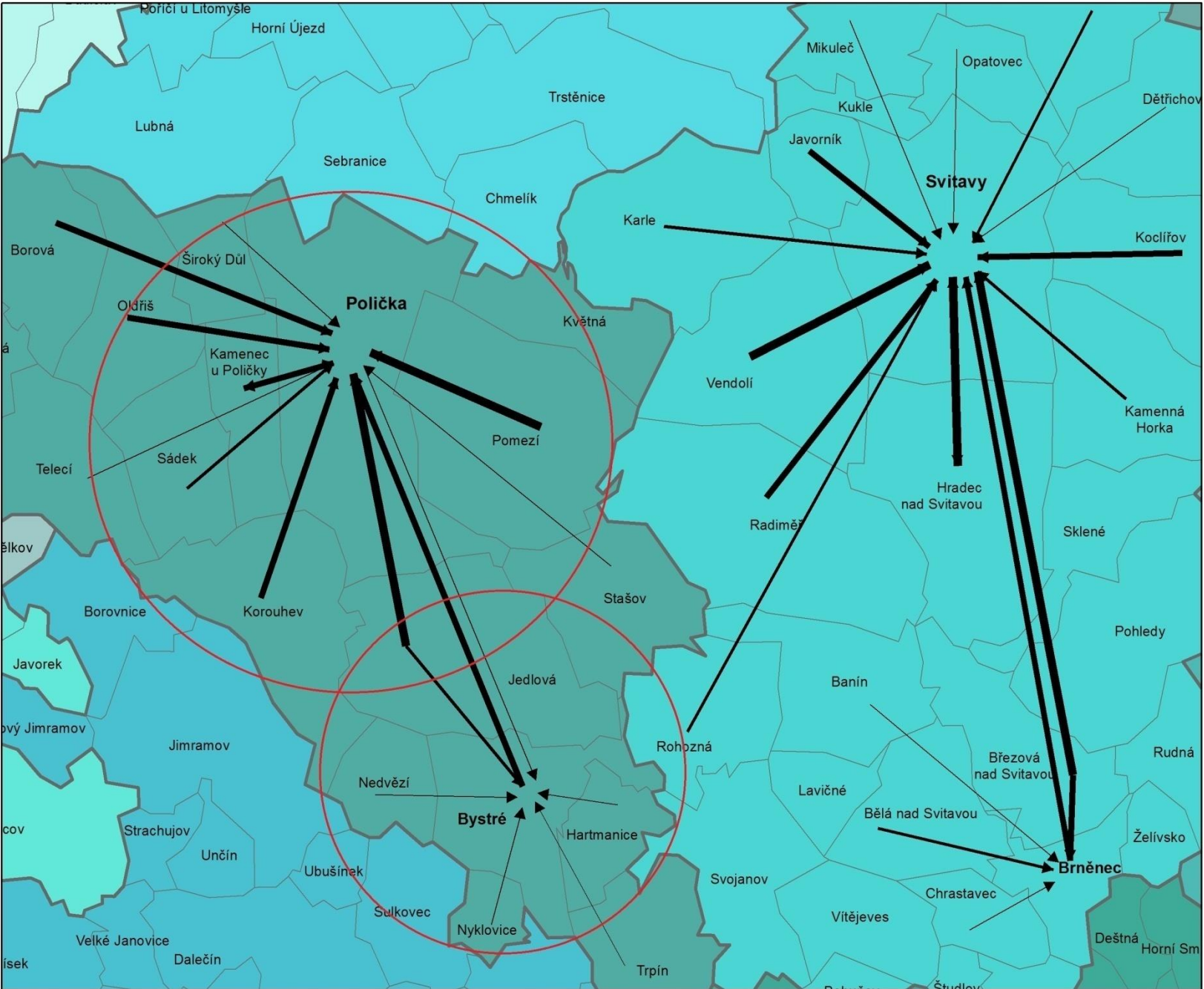
- hranice LLMA
- hranice obce



**intenzita toků  
(počet osob)**

- 0 - 50
- 51 - 100
- 101 - 150
- 151 a více

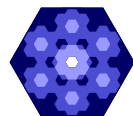
- ▭ hranice LLMA
- ▭ hranice obce







**Thanks for your attention!**



**CENARS**

Centre for Analysis of Regional Systems  
[cenars.upol.cz](http://cenars.upol.cz)