



INSTITUTE OF ECONOMIC FORECASTING  
RUSSIAN ACADEMY OF SCIENCES



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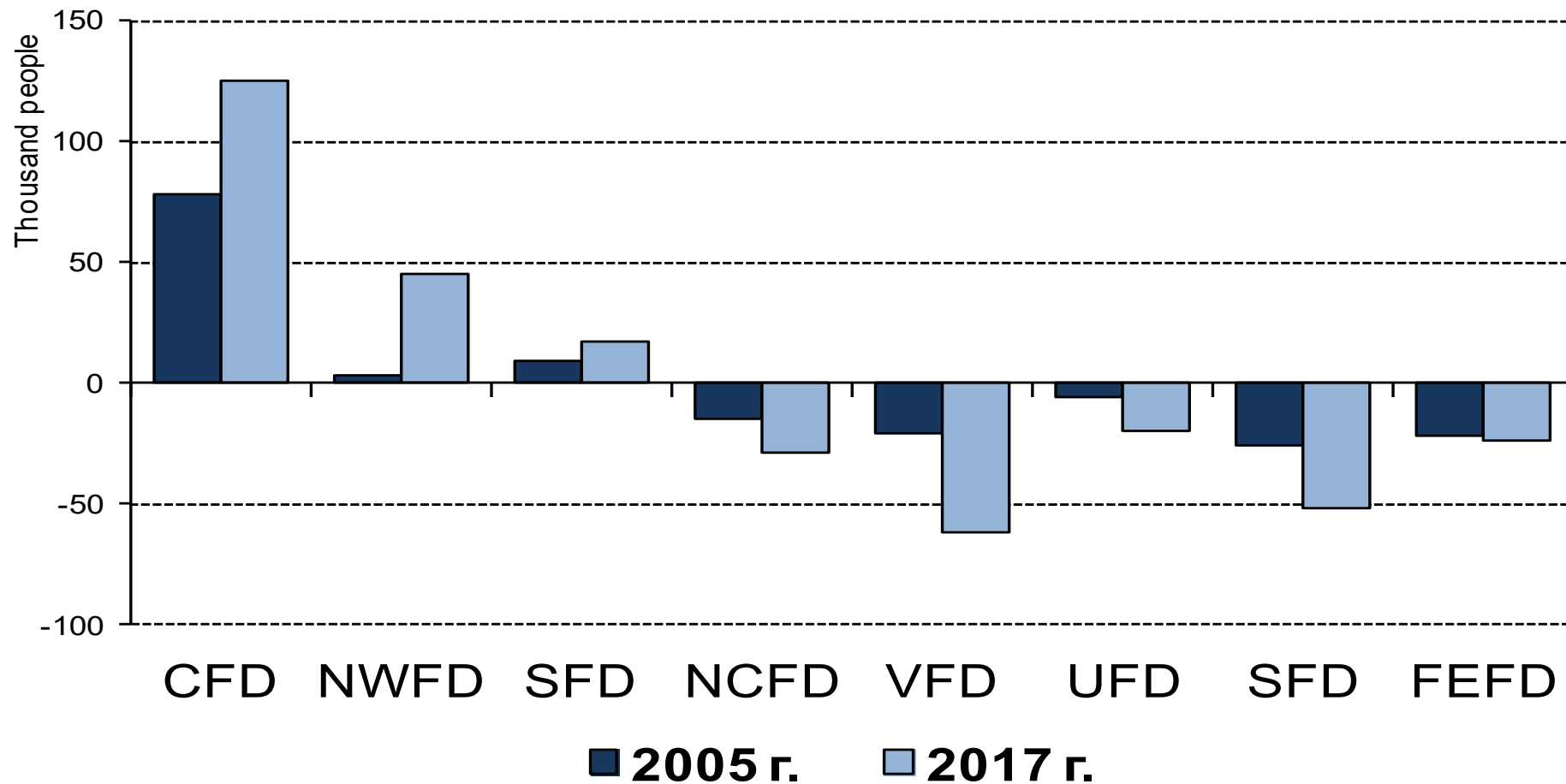
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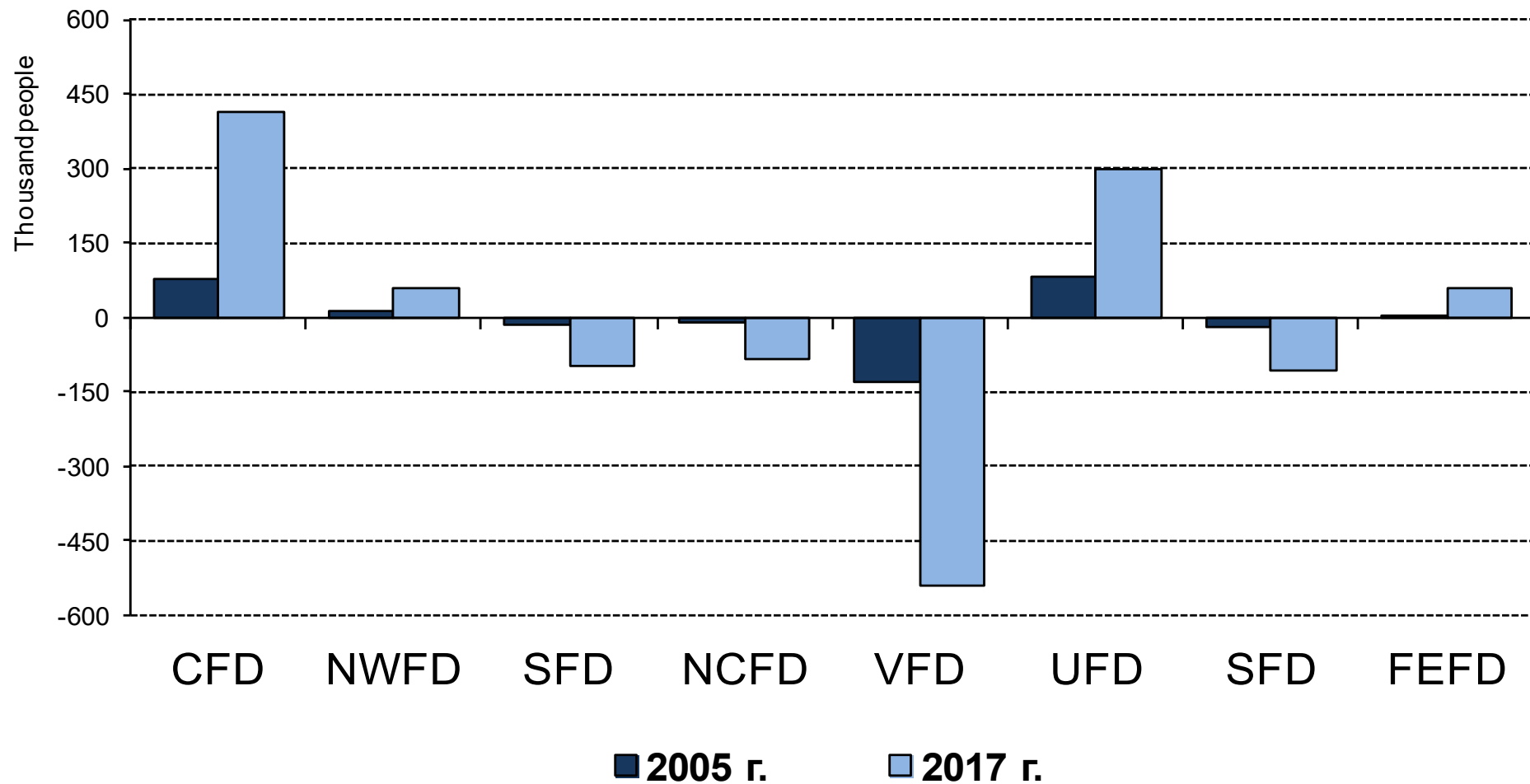
**Estimation of future interregional labour  
migration on the base input-output  
calculations**

26th INFORUM World Conference  
2018, Poland, Lodz

# Changes of population internal migratory flows (the balance)



# Changes of internal labour migratory flows (the balance)



# The questions we are looking for answer in research

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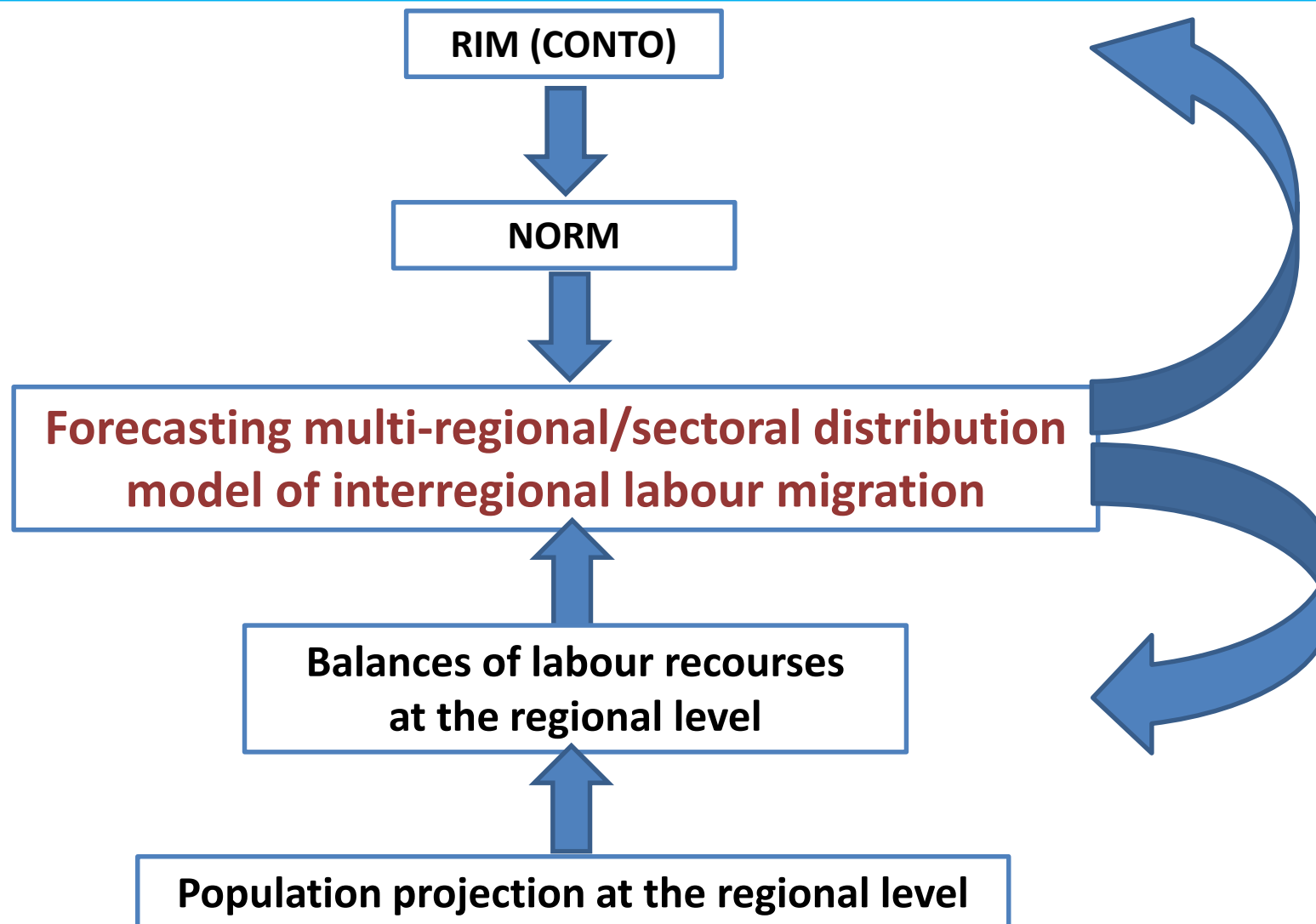
- 1) Could we provide with the labour force regions which now are losing their population by changing pattern of internal migration if the government starts to provide the active structure-investment policy?
- 2) How changes in sectors labour demand in regions will impact the internal migration flows?

## **A possible solution**

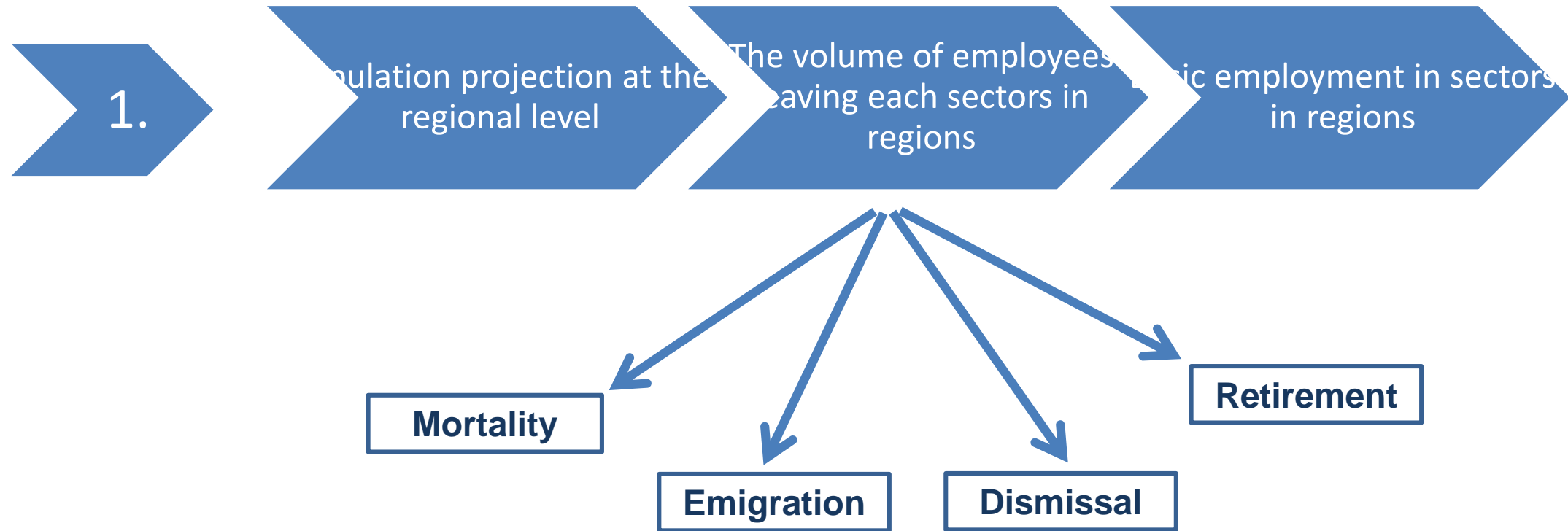
To build the forecasting multi-regional/sectoral distribution model of interregional labour migration to meet the labour needs of regions.



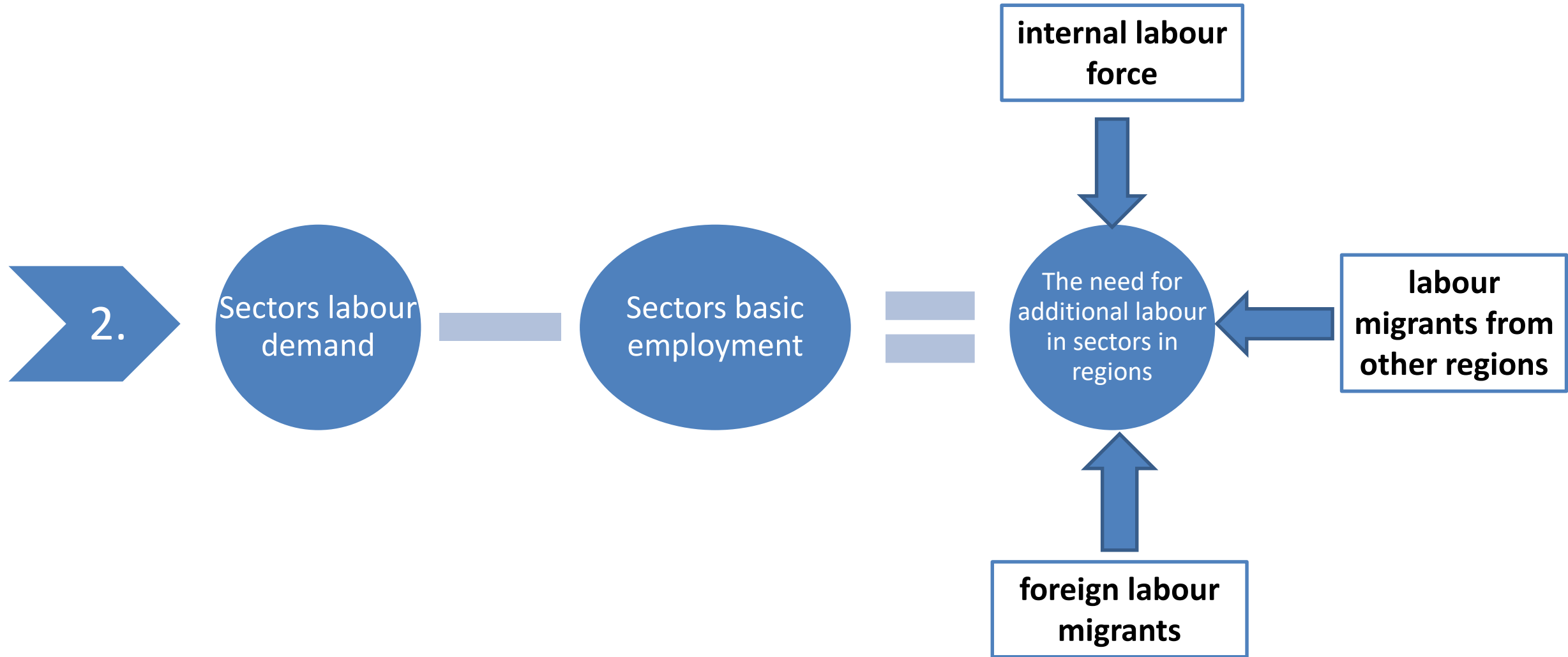
# A possible solution



# The forecasting multi-regional/sectoral distribution model of interregional labour migration: step by step



# The forecasting multi-regional/sectoral distribution model of interregional labour migration: step by step



# The forecasting multi-regional/sectoral distribution model of interregional labour migration: step by step

3.

- the volumes of labour force reserve in each region (internal labour force)

4.

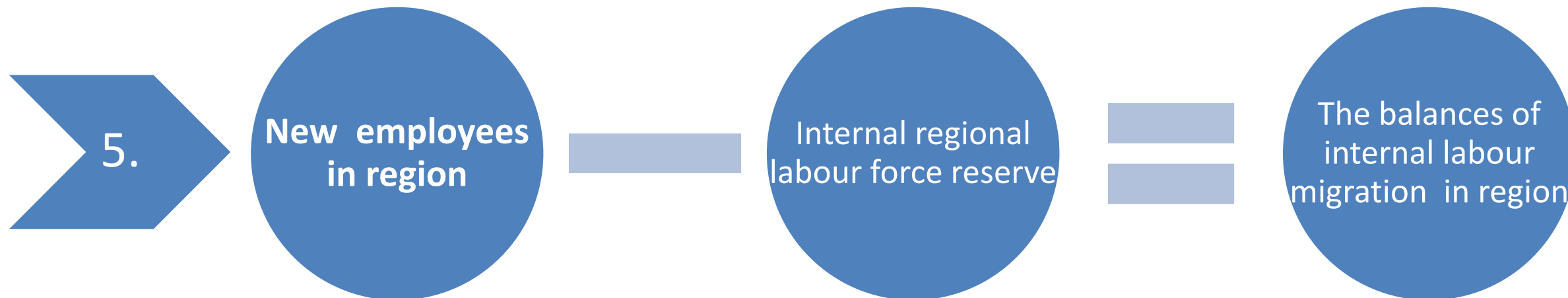
- Modeling the distribution of total labour force reserve between regions and sectors (follows the economic attractiveness).
- The volumes of distributed labour force reserve in each regions = new employees





# The forecasting multi-regional/sectoral distribution model of interregional labour migration: step by step

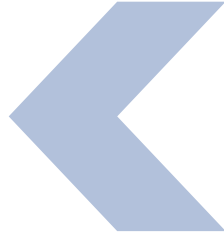
For each region:



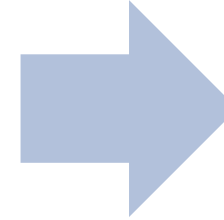
## Following situations within region:

1.

New employees in region



Internal labour force reserve



The own labour force reserve leave or remain in the region

2.

New employees in region



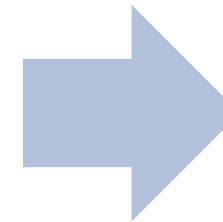
Internal labour force reserve

3.

New employees in region



Internal labour force reserve



labour migrants from other regions



# On the model base the next forecast assessments can be obtained

1.

- The necessity of labour market for foreign labour force (the difference between total need for additional labour and total labour force reserve)

2.

- The ability of filling each sector of every region by the labour force reserve, taking into account its economic attractiveness

3.

- The balance of the internal labour migration for each region

4.

- The necessity of each sector for foreign labour force



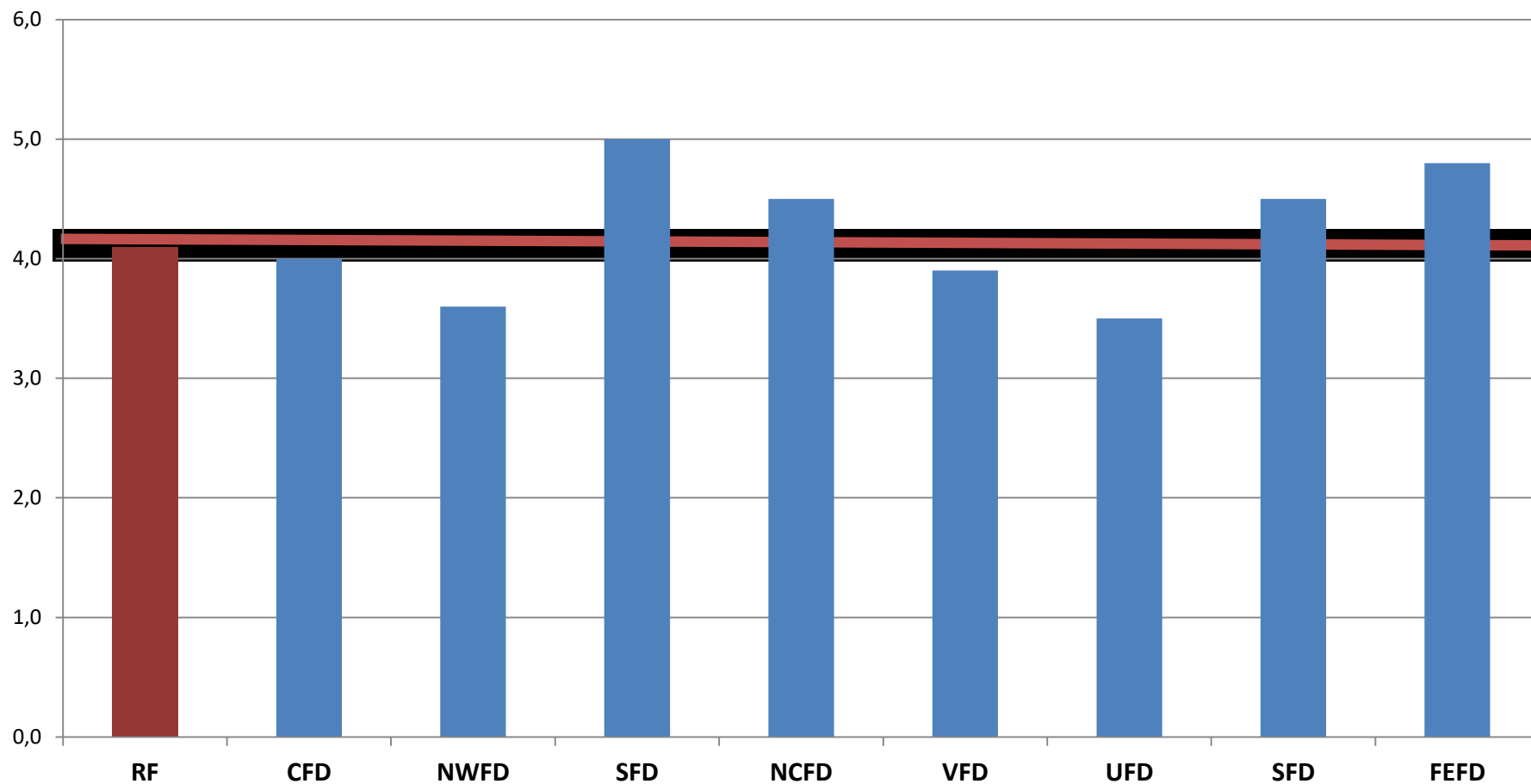
On the model base the next forecast assessments can be obtained

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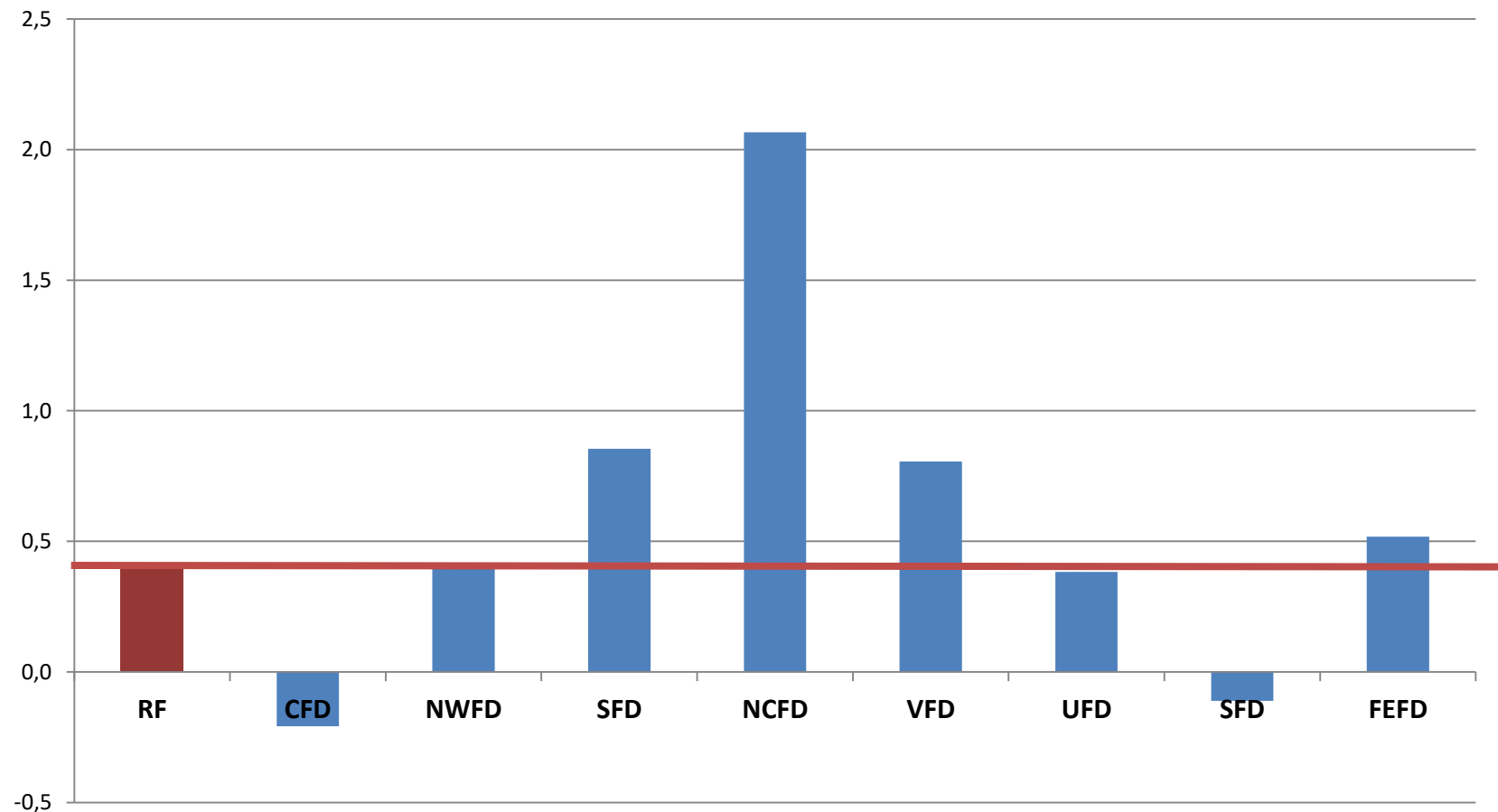
# Scenario conditions



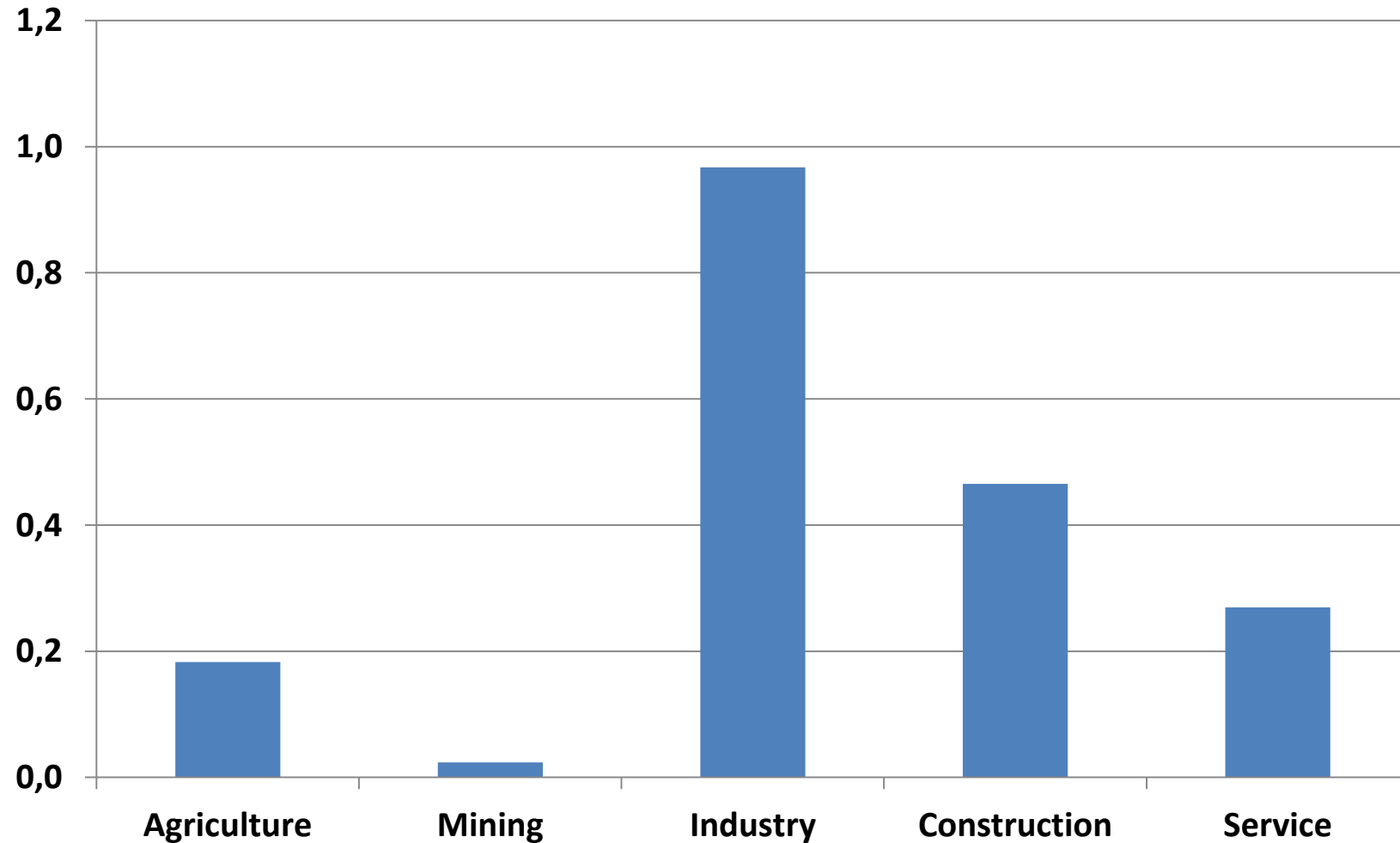
# The average growth rate of GRP by Federal Districts, %, 2017-2030



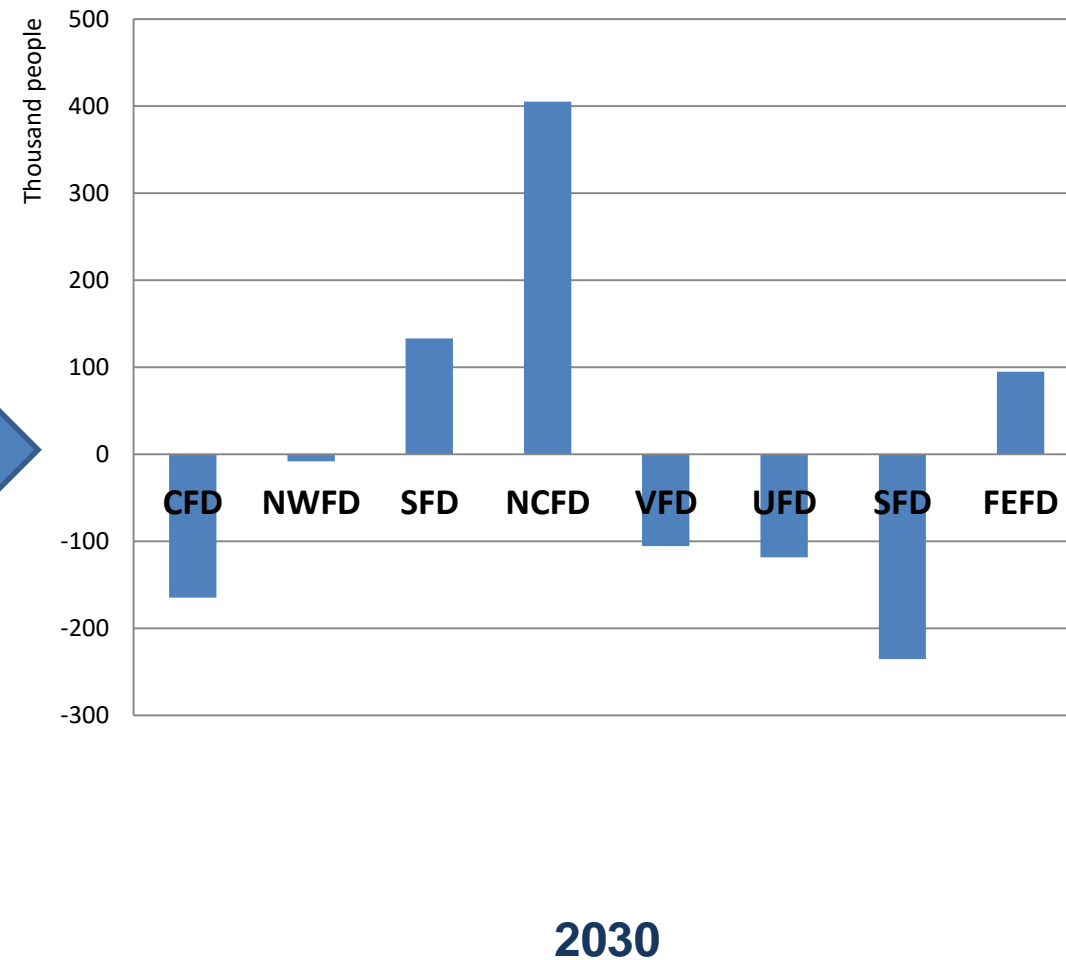
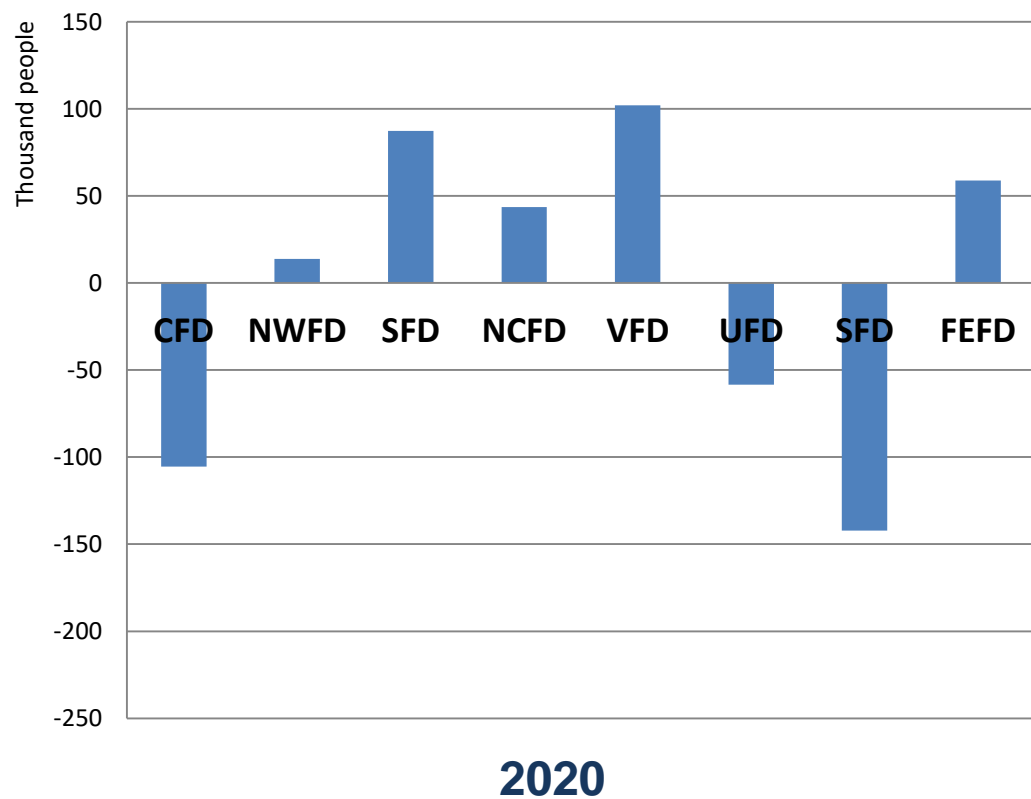
# The average growth rate of labour demand by Federal Districts, %, 2017-2030



# The average growth rate of labour demand by sectors, %, 2017-2030



# The balance of the future interregional labour migration (preliminary results of the study)





# Research perspectives:

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1. To consider various restrictions in modeling of labour force distribution between regions and sectors.
2. Apart from economic factors of region and sector attractiveness the other factors such as weather, transport accessibility etc will be take into account.
3. The more specified analysis at the regions level is needed.



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# Thank you for attention!

