

# Post-industrial future of Konin city region

# Outline



1. Introduction about Konin city and county
2. Stage FOR
3. Stage M
4. Stage A
5. Experience collected



Berlin

Konin

Warsaw

Wrocław

Prague





# Data

- population Konin city 77k (Varese 80k),
  - Konin region 205k
- jobless 4,7k
  - Konin region 12k
- Planned changes in industry:
  - 1 power station scheduled to close in 2017,
  - mine scheduled to close gradually by 2030
- Power stations:
  - Konin 193 MW\*, Pątnów II 474 MW\*,  
Pątnów I 1,2 GW\*, Adamów 600 MW\*;
  - tot. 2.5GW\* 8,5% of national power



\* MW of electric power

# FOR: Main question



How will a quality of life change in Konin until 2050?

Consider:

1. economy (industry, companies, entrepreneurs)
2. job posts creation
3. education system
4. demographic structure
5. natural environment quality

# M\_1: Dealing with system's size



How will a quality of life change in Konin until 2050?

Quality of life has been defined as being created by five features:

- Business activity and job market
- Leisure activities
- Natural environment
- Transport / infrastructure
- Education

# M\_1: Example of initial system description

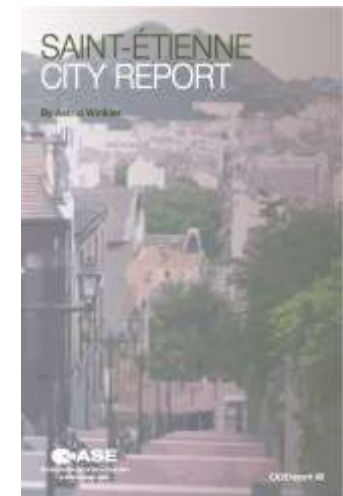
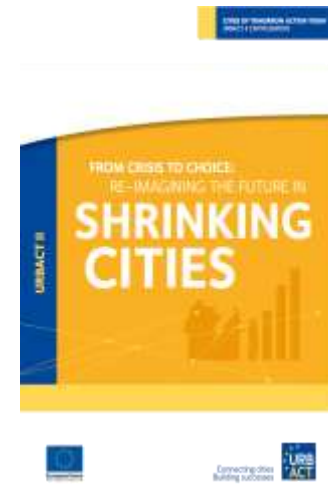
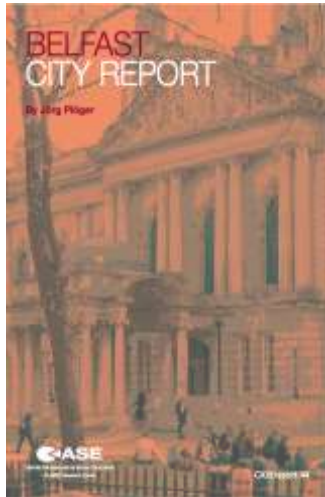
Business activity and job market

		Actors		
		Council	NGO	Private business
<b>Groups of functions &amp; elements</b>	<b>Job access</b>	Labor office, Job creation	Job creation, Job Activation Unit, Intermediate party	Job creation, Employment Agency
	<b>Economic structure in the region</b>	Spatial planning, Fiscal programs, Concessions, Bureaucratisation		
	<b>Access to goods and services</b>	Rent collection, Hospitals, clinics	Research, prevention	private clinics, commerce





# M\_2: Alternative solutions in 5 parallel tracks



# M\_2: Alternative solutions



- 1 Education programs answering to job market demand
- 2 Entrepreneurship incubator
- 3 City-bike system
- 4 City-bike promotion program
- 5 Integrated cooperation between council, business and NGO (Increased role of business council)
- 6 Municipal beach
- 7 Private and public zero-energy buildings
- 8 Turning a city towards a river

# M\_3: Measures















	#1	#2	#3	#4
Performance				
Job market/Busi ness	jobless [people]	new business [per capita]	employed [people]	employed in mining and energy sector
	Expenses			
	investments support from the council [PLN]*			

# M\_3: Measures

	#1	#2	#3	#4
Performance				
Education	Ratio of education expenses and GDP	People employed after training by job office	People active in voluntary activities	Number of pupils/students using job training
	Expenses			
	Jobless aged 18-25	Six components of city's education budget		

# M\_3: Measures Data Accessibility

Cells in red - accessible through regional statistical service  
Blue - evaluated as key measures  
Comments - collected indications where to access data

	A	B	C	D	E	F	G	H	I	J	K
1	z zasobów BDL Bank Danych Lokalnych stat.gov.pl										
2	Miernik główny		miernik 1	Wydajność (performance)			miernik 4	miernik 5	miernik 1	Koszt (expenses)	
3		Środowisko naturalne	jakość powietrza [poziom głównych zanieczyszczeń]	oczyszczanie ścieków, dostępność do kanalizacji	powierzchnia (ha) zieleni miejskiej ogólnodostępnej i osiedlowej	wielkość działań na rzecz termomodernizacji (budownictwo zeroenergetyczne )		Kategorie: gospodarka komunalna i ochrona środowiska ogrody botaniczne, zoologiczne oraz naturalne obszary i obiekty chronionej przyrody		nakłady finansowe na ochronę środowiska	
4		Rynek Pracy/Gospodarka	bezrobocie [liczba]	liczba przedsiębiorstw zakładanych [per capita]	liczba zatrudnionych [1]	liczba osób zatrudnionych w przemśle energetycznym, wytóbyczym	kat. budżetowa: wpływy z podatku dochodowego od osób prawnych	wielkość dotacji inwestycyjnych			
5		Czas wolny	liczba imprez masowych [1/rok]	centrum kultury i sztuki [i. bilety, liczba wydarzeń]	liczba klubów sportowych	kina?	treści piesze/turystyc zne poza miastem [km]	 Agata Kuźmińska 8:19 AM Feb 5 <a href="http://www.powiat.konin.pl">www.powiat.konin.pl</a>			
6		Transport	 Agata Kuźmińska 9:17 AM Feb 5	 Justyna Król 11:52 AM Feb 4	 Agata Kuźmińska 9:04 AM Feb 5	 Agata Kuźmińska 9:04 AM Feb 5	 Agata Kuźmińska 9:04 AM Feb 5	 Agata Kuźmińska 9:04 AM Feb 5	 Agata Kuźmińska 9:04 AM Feb 5	 Agata Kuźmińska 9:04 AM Feb 5	 Agata Kuźmińska 9:04 AM Feb 5
7		Edukacja	wydatki publiczne na edukację w odniesieniu do PKB	liczba osób zatrudnionych w wyniku ukończenia szkolenia PUP	liczba osób działających w wolontariacie	posredującym w odbywaniu praktyk/ew. liczba uczniów z tego korzystających	% uczniów kontynuujących edukację lokalnie	uważam, że tutaj bardziej pr. Jeśli się mylę, proszę o kore.  Mat Słupinski 10:14 AM Feb 5 zgoda; pownie przez pomyłkę było w kosztach	 Justyna Król 1:32 PM Feb 4	 Justyna Król 1:32 PM Feb 4	 Justyna Król 1:32 PM Feb 4
8											



# M\_4: Alternatives Selection



	Alternative solution	Measures associated	Domains related
1	Education programs answering to job market demand	7	2
2	Entrepreneurship incubator	5	2
3	City-bike system	5	3
4	City-bike promotion program	3	3
5	Integrated cooperation between council, business and NGO (Increased role of business council)	7	2
6	Municipal beach	5	3
7	Private and public zero-energy buildings	1	1
8	Turning a city towards a river	5	2

# M\_4: Alternatives Selected



1. Investment in “returning city to river” - creation of leisure infrastructure
2. City-bike infrastructure and supporting program
3. Inter-sectoral policy for education and entrepreneurship through tight cooperation Business+Council+NGO

# M\_5: Returning city to river



# M\_5: Returning city to river



Pro	Con
Inland waterways exploitation - commercial, leisure (support in H2020)	Risk of low interest of population
Growth of leisure space	Risk of river and banks pollution
River banks development	Need for maintenance i.e. infrastructure and people assuring security (fences, life guard)
Exploitation of nature-created area	Noise and people movement during late hours
Development of space for leisure activities and small cultural events	More objects to be endangered by floods
River incorporation into city life	



1980

2015

STYCZEŃ

LUTY

MARZEC

2050

# ① Przywrócenie m. rzeki

- konserwacyjne

handlowa(?)

1. m. Konin - inwestycje [PLN, st. prog.]
2. Zagospod. środ. nat. [km<sup>2</sup>]
3. Śred. zegl. śródłąd.

1. inwest. strategiczne zrealizowane
2. wzrost
3. podwyższenie jakości

<zagospodarowanie>  
<terenów wzdł. cieków  
wodnych>

pow. ter. rekr. wzdł. rzeki 10%

2. niezagospodar.

3.

1. pow. ter. rekr. [km<sup>2</sup>]
2. pow. zieleń
3. liczba podmiotów gosp.

1. wzrost, 60%
2. ukształtowania
3. wzrost

1. ?

1. żegluga
2. ścieżki rowerowe
3. infrastruktura

+ przestrzenne i techniczne



## Step M\_5

	1980	2015	2050
super-system		<ol style="list-style-type: none"> <li>1. City's council activity</li> <li>2. Environment development</li> <li>3. Waterways</li> </ol>	
system		<p>&lt;Development&gt; of &lt;river* banks&gt;</p> <ol style="list-style-type: none"> <li>1. Leisure area along river</li> <li>2. Maintained green area</li> <li>3. Business initiatives</li> </ol>	
sub-system		<ol style="list-style-type: none"> <li>1. Navigation activity</li> <li>2. Bike tracks</li> <li>3. Infrastructure</li> <li>4. Service</li> </ol>	

\* river - includes river and channels, both qualified and not qualified for commercial navigation

# A\_1 Problems & limited resources



	#1	#2	#3	#4
	Problems			
Job market/Business	Decreasing job places corresponding to competences of workforce	Adaptation of trade to needs of business	Radical decrease of jobs in industry	Low number of small and micro enterprises
	Limited resources			
	Braun coal deposits designated for exploitation	Job posts in heavy industry	Entrepreneurship tradition	Size of B2B space around large companies

# A\_1 Problems & limited resources



	#1	#2	#3	#4	#5
	Problems				
Education	Adaptation to needs of job market	No accountability for no response to job market	Low quality of education	Need for development of entrepreneurial competences	Complexity of education programs construction
	Limited resources				
	Competences of management staff				

# A\_1 Support from Scenario workshop



Draft report from scenario workshop was used to extract:

11 problems e.g.:

- topographic divisions,
- artificial society tights,
- lack of local identity

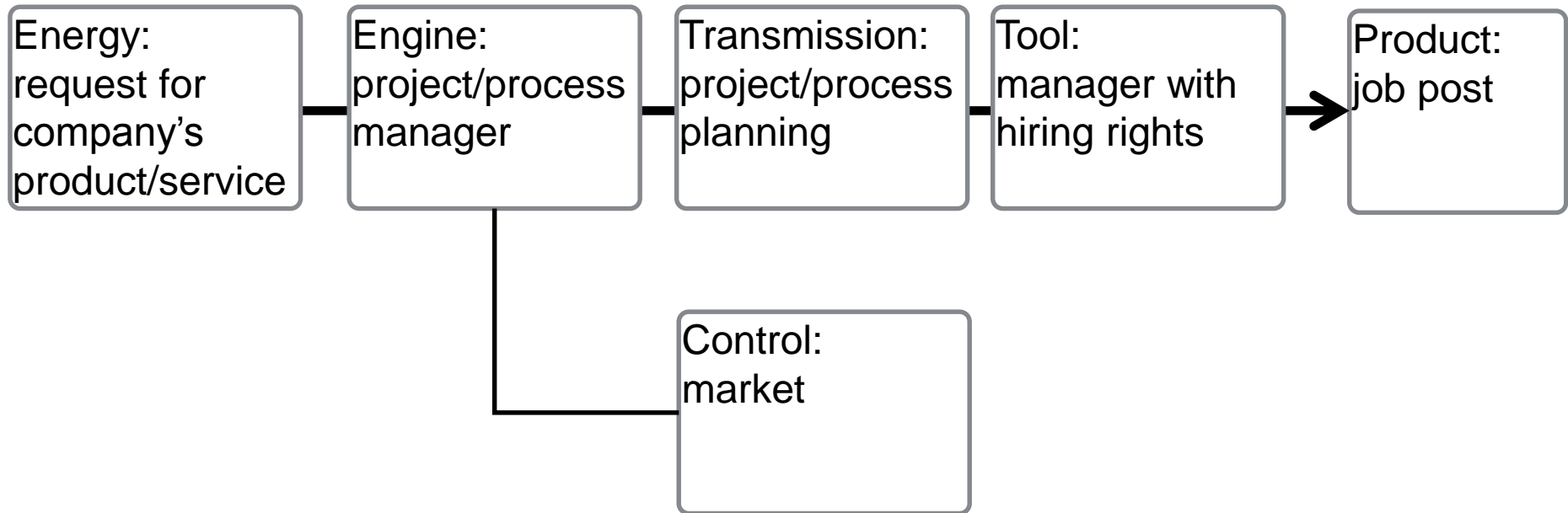
16 resources e.g.:

- lakes,
- multi-cultural background,
- sailors,
- number of craftsmen (low)

# A\_2 Minimal Technical System



Job market/Business





# A\_2 Minimal Technical System



## Laws of Technical Systems Evolution:

- Dynamization: projects oriented structures in companies,
- Transition to super-system: extension of operation area e.g. nation-wide, international
- Transition from macro to micro level: self-employment
- Increasing S-field involvement: coordinated self-employment

# A\_2 Minimal Technical System



Observations have been done for all levels in System Operator. Conclusions from A\_1 and A\_2 have been written in a form of short glimpses for each of alternative solutions.

# A\_2 Returning city to river



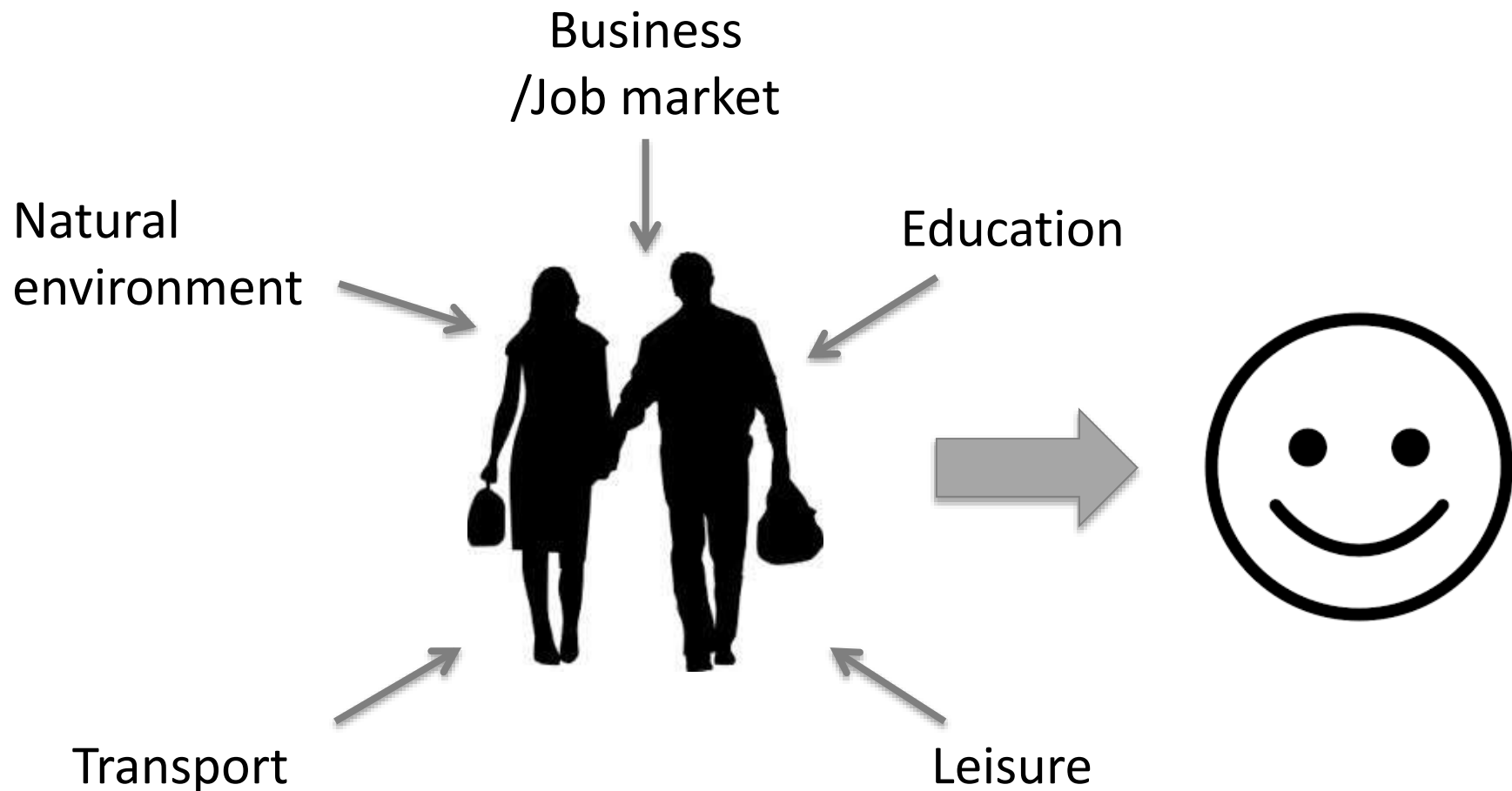
## *Glimpse*

Thanks to creation of a minimal and efficient infrastructure utilization of river banks surroundings will be increased.

“minimal” - investments will be limited due to the lack of demographic stability what involves a number of potential users

“efficient” - limited resources will be spent on infrastructure facilitating self-organization of leisure activities by population

## A\_3 Quantitative forecasting



# A\_3 Quantitative forecasting Data sets



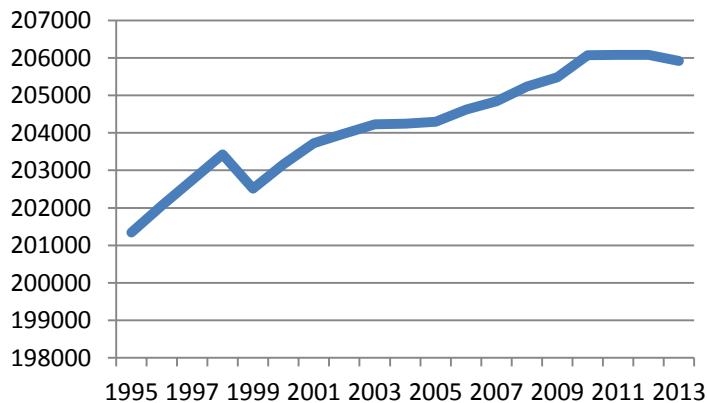
#	Logistic	Ideality
1	Population	Population / total budget expenses
2	Employed	Employed / new business registration
3	Number of people training in sport clubs	Number of people training in sport clubs / budget expenses for sport
4	Number of students continuing education (option)	
5	Number of public transport tickets sold (option)	Number of city transport tickets sold (option) / budget expenses for public transport
6	Green area administrated by city	Green area administrated by city / budget expenses for maintenance



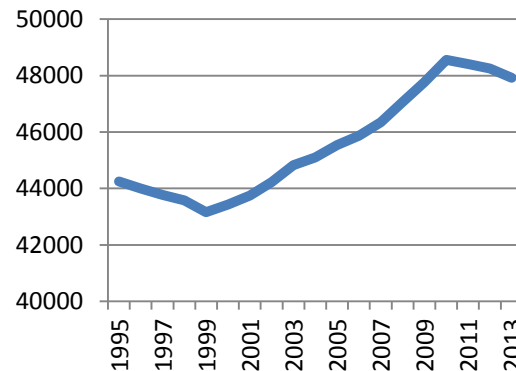
# A\_3 Quantitative forecasting Population



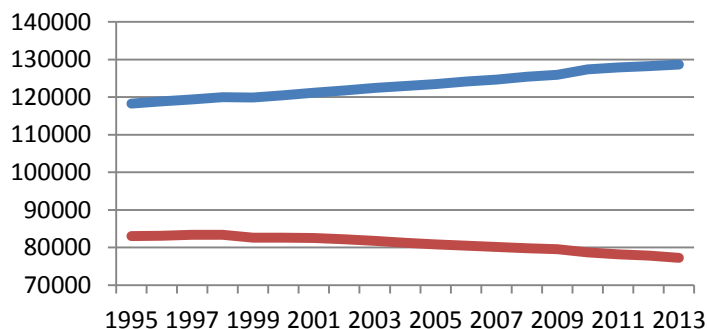
**Population in study area**



**Population 24-39  
(county+city)**

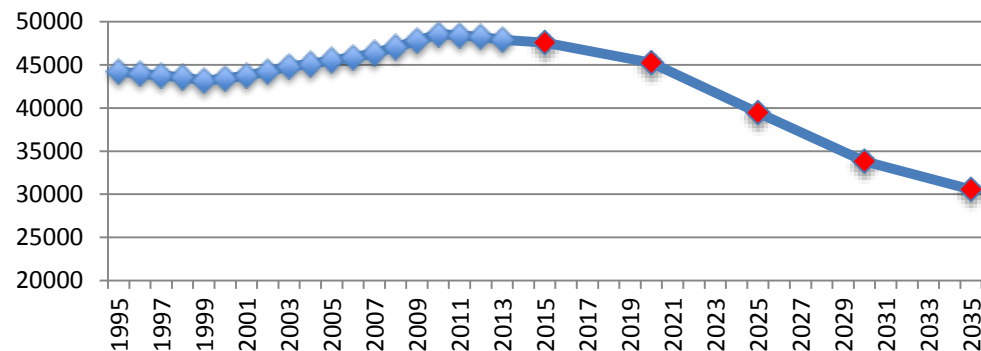


**Population in study area**



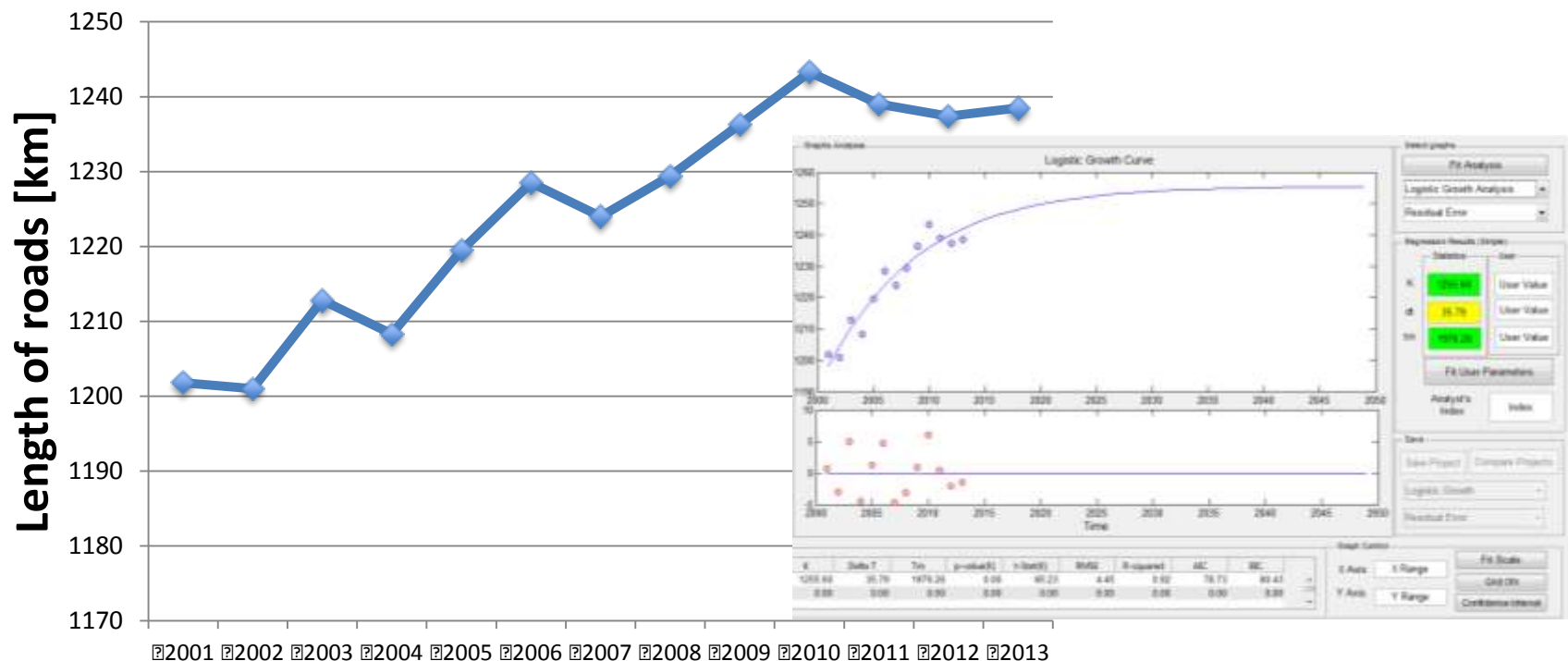
— County population — City population

**Statistical Office forecast of 2012 for  
population of age 24-39 (county+city)**



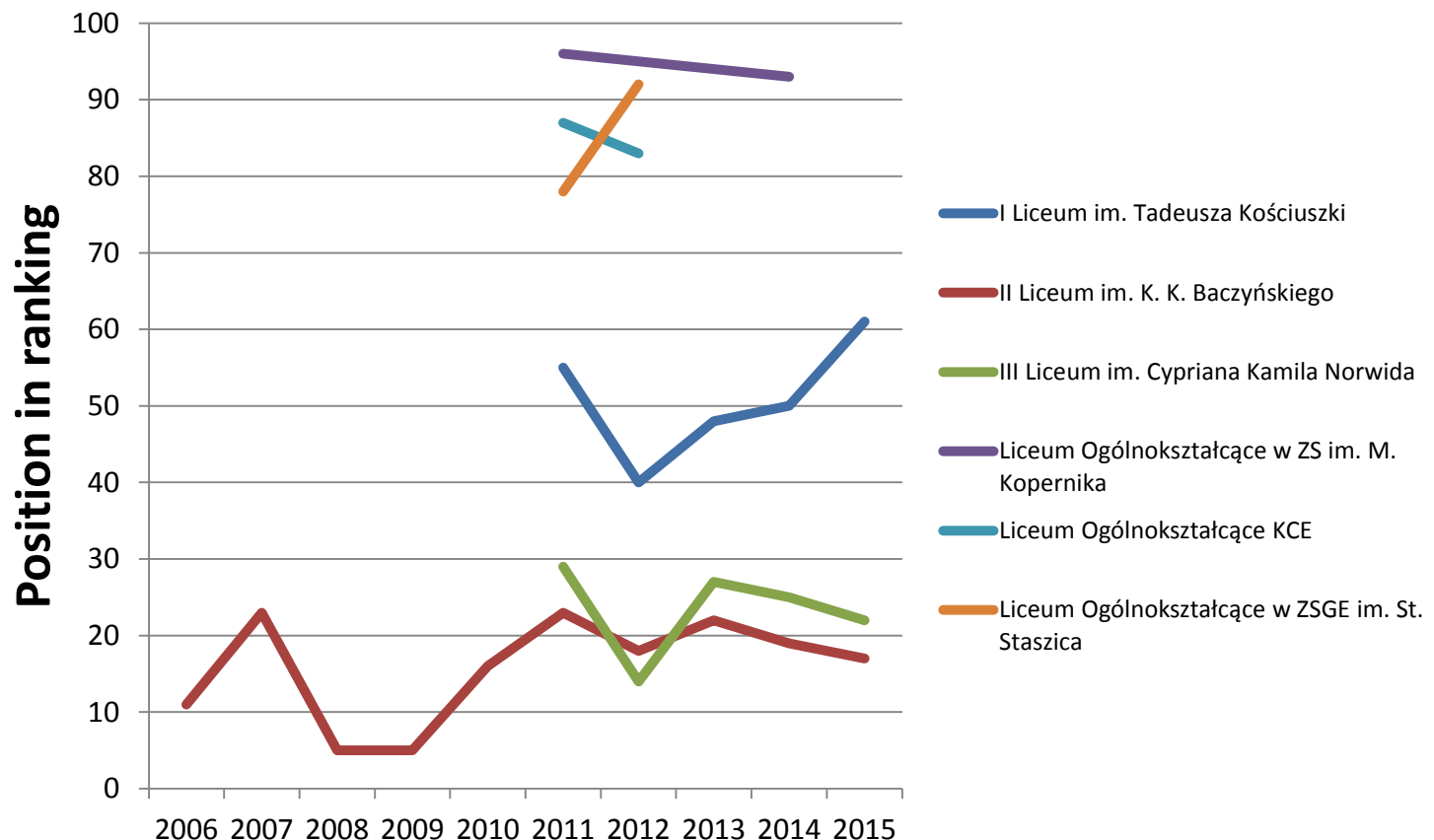
# A\_3 Quantitative forecasting Transport

County roads with hard and improved surface  
(county + city of Konin)

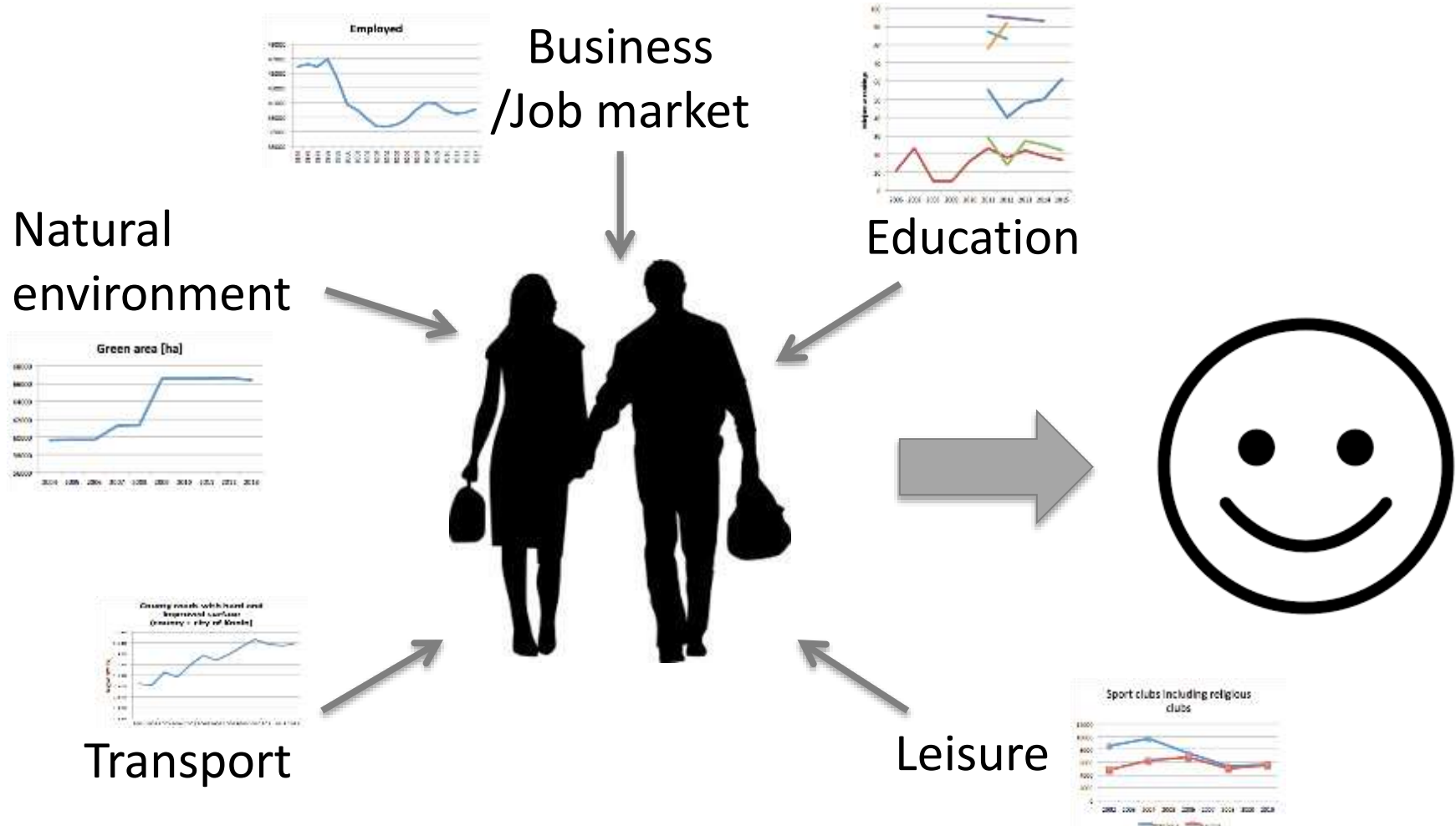


# A\_3 Quantitative forecasting Education

**Secondary schools in Konin**  
**Position in 'Perspektywy' ranking for Wlkp. region**



# A\_4 Summary



# Experience



- Data accessibility and use
- Opinions of users
- Difficulty in interpretation of technical oriented tools for non-technical systems