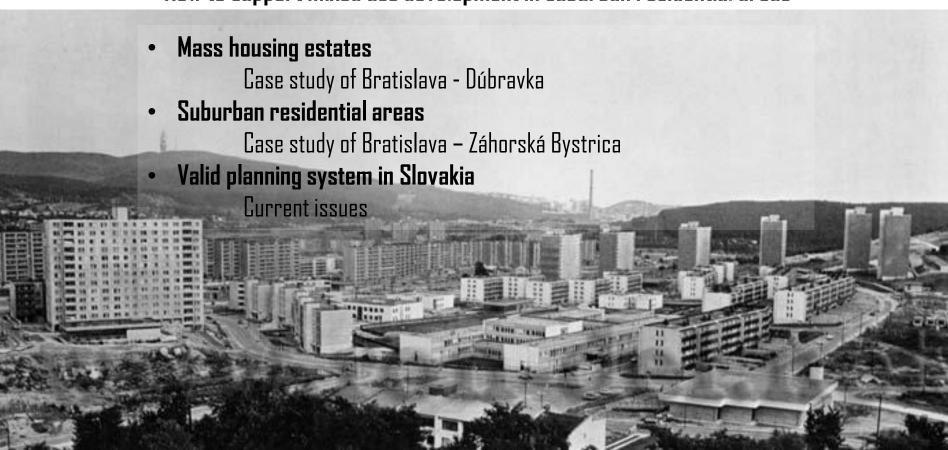
# "Sleeping" suburbs of Bratislava

How to support mixed use development in suburban residential areas



Ing.arch. Oľga Melcerová, PhD. Faculty of Architecture STU Bratislava

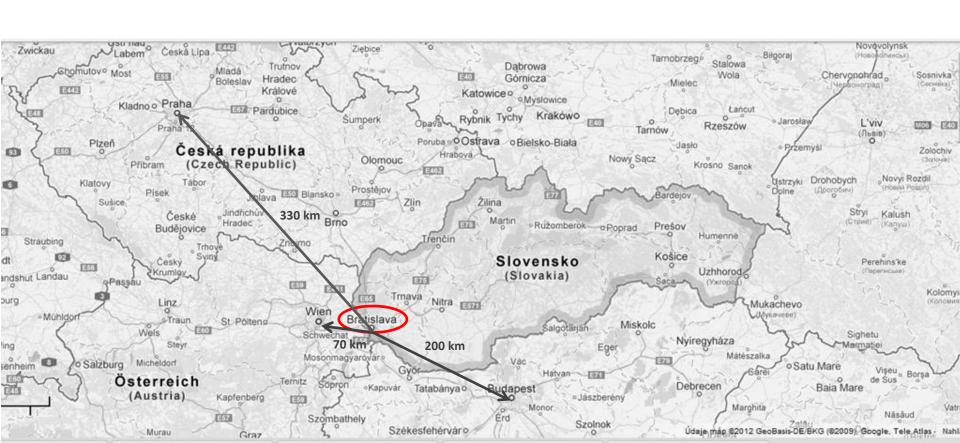
#### Location

#### Slovakia:

- area 49 035 km<sup>2</sup>
- 5,40 mil. inhabitants (30.6.2012)

#### Bratislava:

- capital of Slovakia since 1993
- area 367 km<sup>2</sup>
- 465 327 inhabitants (1.6.2012)



#### Slovakia

Mass housing estates: functionally and territorially autonomous residential areas of at least 300 flats

#### Statistics:

•	construction in 50s-90s	1960 – 22 696 flats

<ul> <li>1,2 mil. flats in prefabs = 1/3 of all flats</li> </ul>	1980 – 8 215 flats
•	

#### Prefabricated construction:

	1 . #
+ fast and rather cheap	- "crane urbanism"
rabt and rather eneap	noi and ai baillein

- monotony, uniformity, bad orientation

- small rooms, missing pantry or storage

- low technical quality

#### Technical – economic directions:

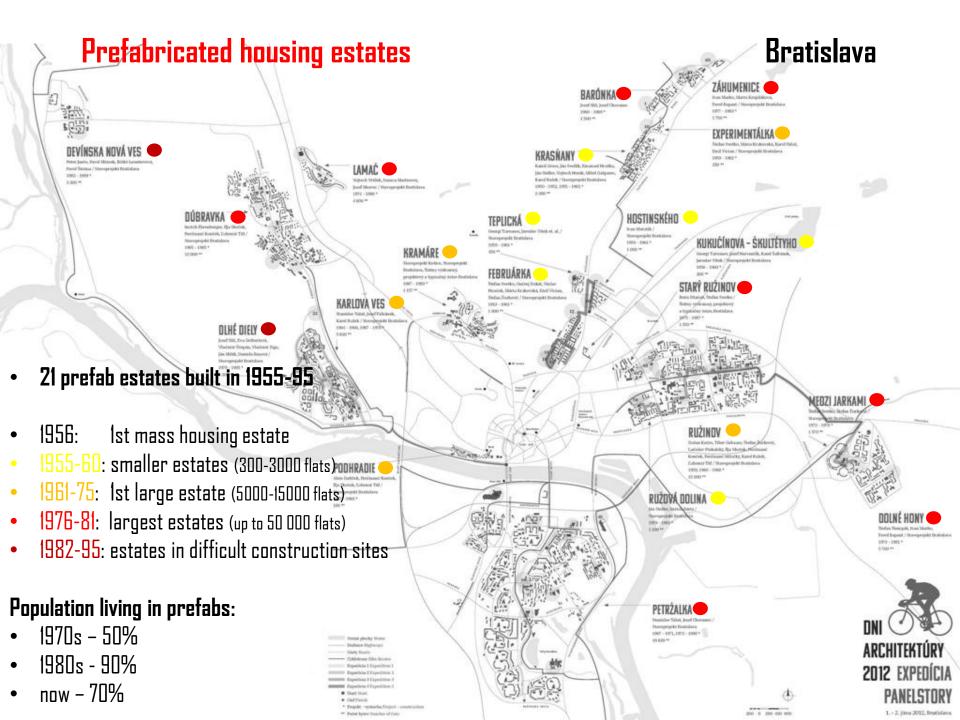
+ flats of good hygienic parameters - "rabbit hutches"

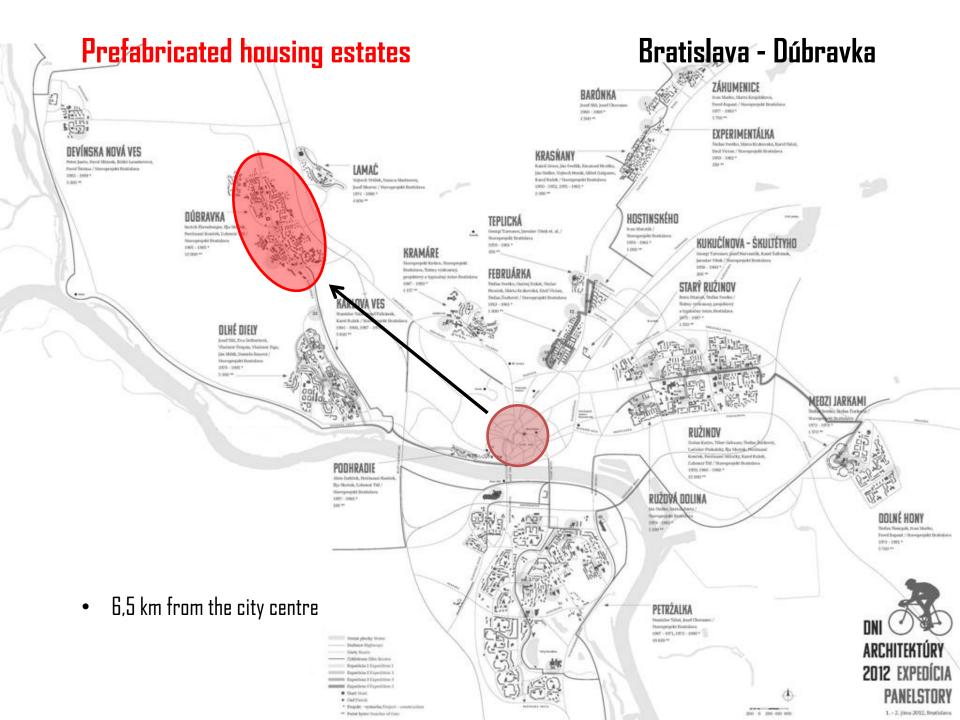
#### **Complete housing construction:**

+ planned public and sport facilities - late and reduced facilities construction

+ lost of recreational greenery - missing work opportunities

+ good public transport connection - lack of parking places





Former village

1500 inhabitants

## Bratislava - Dúbravka



## Bratislava – Dúbravka plan

#### Facts:

Total area: 179,31 ha
Built area: 29,93 ha
Number of flats: 12 000 flats

Housing density: 67 dwellings/ha

Population density: 223 inhabitants/ha

#### Planning and projects:

1965: city development plan of Dúbravka – Lamac

1966: masterplan of housing estate (Koncek, Skocek, Titl)

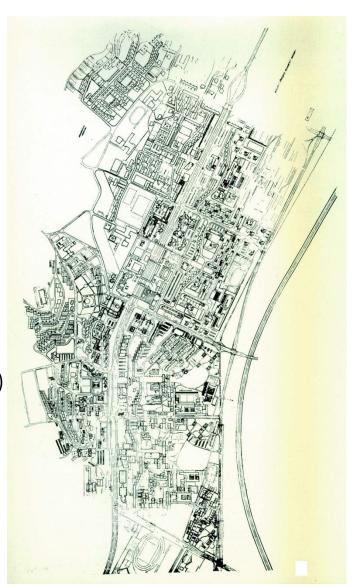
project of Záluhy I. (Koncek, Skocek, Titl)

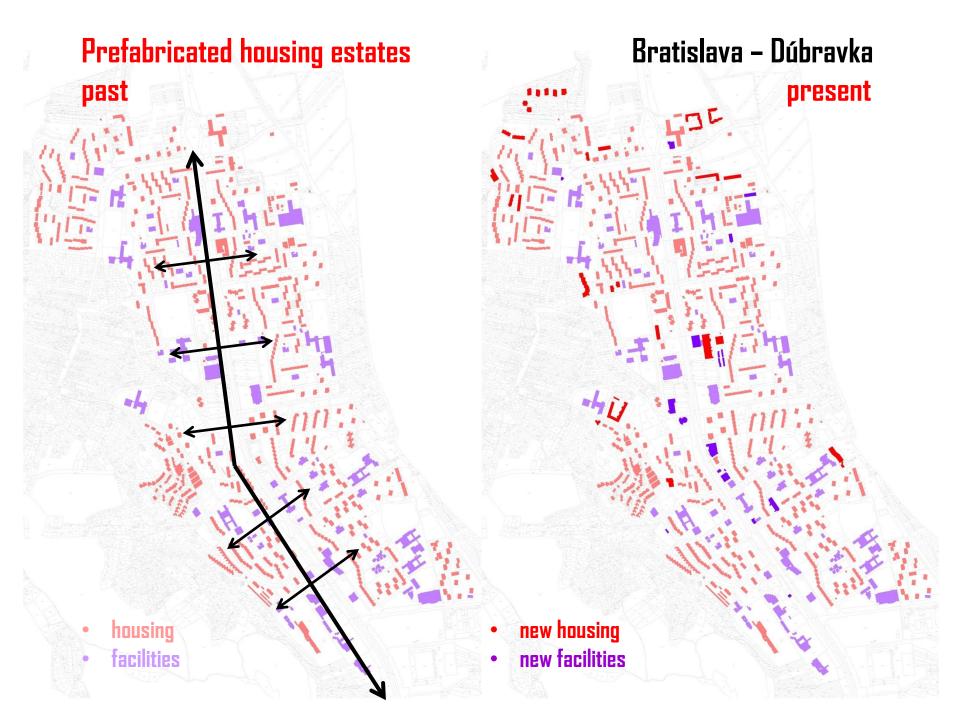
1969-72: projects of Záluhy II. and Podvornice I.-IV. (Ehrenberger)

#### **Construction:**

1965-85: housing estate

1986: "House of culture" as only building of planned center





- retail, services daily use
- retail, services other
- schools / preschools

## Bratislava – Dúbravka



sport

## Bratislava – Dúbravka

#### Number of facilities:

retail, services – daily use: 25 / 5

• retail, services – other: - / 18

• schools: 9/9

• preschools: 31 / 25

culture: 1/6

administration and offices: 9 / 12

health and social care: 5 / 8

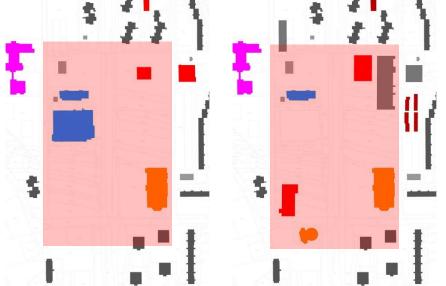
sport: 2/4















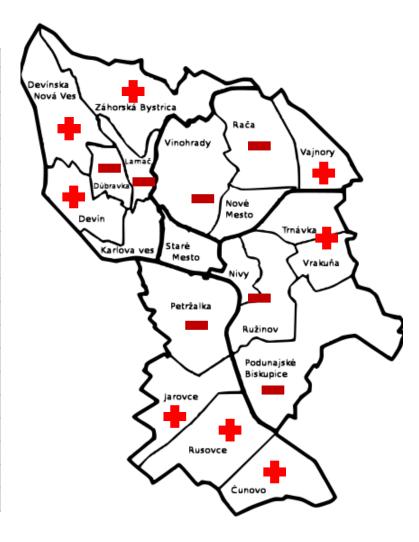




## Migration since 1991

### Bratislava

District	t Borough	Population				
no.		1991	2001	31.12.2009	Growth / decline since 1991	
l.	Staré mesto	49 018	44 798	40 828	- 16.7 %	
II.	Ružinov	73 131	70 004	71 802	- 1.8 %	
	Vrakuňa	18 201	18 386	19 866	+ 9.1%	
	Podunajské Biskupice	21 087	19 749	21207	+ 0.6 %	
III.	Nové Mesto	40 317	37 418	37 778	- 6.3 %	
	Rača	20 784	20172	20 548	- 1.1 %	
	Vajnory	3 384	3 828	5 057	+ 49.4 %	
IV.	Karlova Ves	22 154	32 843	34 510	+ 55.8 %	
	Dúbravka	37 442	35 199	34 725	- 7.3 %	
	Lamač	7 004	6 544	6 722	- 4.0 %	
	Devín	771	884	1 099	+ 42.5 %	
	Devínska Nová Ves	15 233	15 502	16 153	+ 6.0 %	
	Záhorská Bystrica	1731	2 086	3 194	+ 84.5 %	
V.	Petržalka	128 251	117 227	112 545	- 12.2 %	
	Jarovce	1124	1199	1 388	+ 23.5 %	
	Rusovce	1759	1922	2 669	+ 51.7 %	
	Čunovo	816	911	970	+ 18.9 %	
Total		442 197	428 672	431 061	- 2.5 %	



#### Suburban residential zones

#### Location:

• 15 km from city center

#### History:

- agricultural village founded in the 13th century
- part of Bratislava since 1972

#### Population:

1991: 1731 inhabitants

2001: 2086 inhabitants / +21% 2011: 4034 inhabitants / +93%

Finished projects: Strmé vršky

Rezidencia Záhorská

**Planned projects:** Pod vrškami

Záhorské sady Átriá Vlkovka Pod cintorínom

## Bratislava – Záhorská Bystrica



# Suburban residential zones Bratislava – Záhorská Bystrica Former village 1700 inhabitants New residential areas 1 500+4 000 inhabitants

#### Suburban residential zones

## Bratislava – Záhorská Bystrica

- large number of new inhabitants
- underestimated public and sport facilities
- no sufficient public transport connection
- execution of planned facilities postponed to later project stages or not done at all
- quality and capacities of existing facilities insufficient considering increased number of inhabitants

Development project	Number of housing units			Population growth
	In family houses	In apartment blocks	In total	
Pod v <b>ŕ</b> škami	110	1 000	1 110	3 330*
Záhorské sady	106	-	106	318*
Átriá Vlkovka	42	-	42	126*
Pod cintorínom	99	-	99	297*
Total	357	1 000	1 357	4 071

<sup>\* -</sup> calculated 3 inhabitants per housing unit







## Suburban residential zones

## Bratislava – Záhorská Bystrica

	Project		Realization		
	Type of facilities	Floor area (m²)	Type of facilities	Floor area (m²)	
	Co	ommercial segment		•	
Pod V <b>ŕ</b> škami	RETAIL: - shopping center	8000	-	-	
Záhorské sady	OFFICES: 200 m <sup>2</sup> RETAIL: 800 m <sup>2</sup> SERVICES: - services - 1000 m <sup>2</sup> - hobby center - 1000 m <sup>2</sup> - gadrencraft - 800 m <sup>2</sup> - veterinary - 200 m <sup>2</sup>	4000	-	-	
Átriá Vlkovka	OFFICES + RETAIL + SERVICES	1470	0	174	
Pod cintorínom	RETAIL + SERVICES	200	-	-	
	Non-	commercial segment			
Pod V <b>ŕ</b> škami	EDUCATION: - kindergarden and primary school	0	-	-	
Záhorské sady	HEALTH CARE: - dentist - 100 m <sup>2</sup> SOCIAL CARE: - club - 500 m <sup>2</sup>	600	-	-	
Átriá Vlkovka	HEALTH CARE	0	-	-	
Pod cintorínom	-	-	-	-	
		Leisure segment			
Pod Vŕškami	- sport hall - playgrounds - relax center	0	-	-	
Záhorské sady	- fitnes – 300 m <sup>2</sup> - wellness – 300 m <sup>2</sup> - Indoor tenis courts – 300 m <sup>2</sup>	900	-	-	
Átriá Vlkovka	- playgrounds	0	-	-	
Pod cintorínom	-	-	-	-	

## Prefab housing estate





#### Monofunctionality

Physical structure - centrality

Transport

- housing + basic facilities
- hierarchy, unfinished centers
- public transport







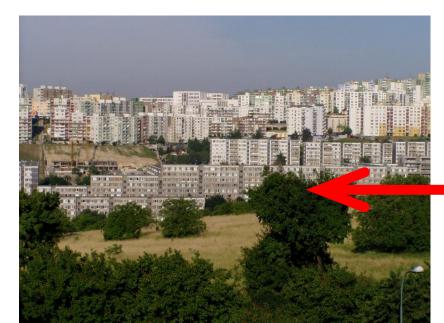




- only housing
- homogeneity, no centers
- car transport









## Valid planning system

#### Slovakia

#### Law on spatial planning and building regulation (building act) no. 50/1976

• 29 changes (1982, 1990, 1992, 1995/2x, 1996, 1997, 1999, 2000/2x, 2001/2x, 2002, 2003/4x, 2004, 2005/2x, 2006, 2007, 2008, 2009/2x, 2010/3x, 2011)

#### **Current issues:**

- long terms preparation (Bratislava: 1993-2007)
- obstacles with changes (appr. 2 years)
- inappropriate scale for development and regulation plan
- absence of detailed development plans
- ownership of land not taken into account
- limited public participation (official board / public hearing)
- no discussion between city, developer and local community
- no flexibility no space for negotiation
- ambiguous definition of parameters
- difficult professional language obscure for ordinary people
- worked out by individual planners not planning authority



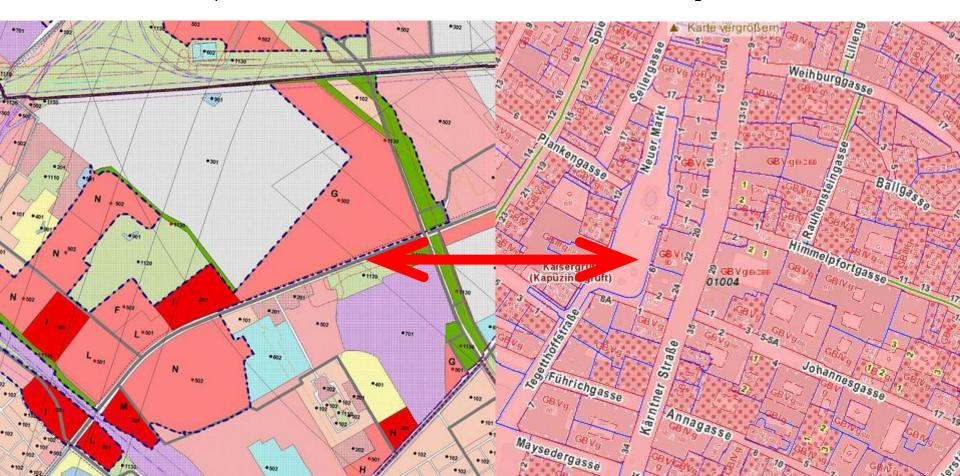


## **Current planning system**

- complicated
- obligatory
- approved in advance
- detailed in city scale

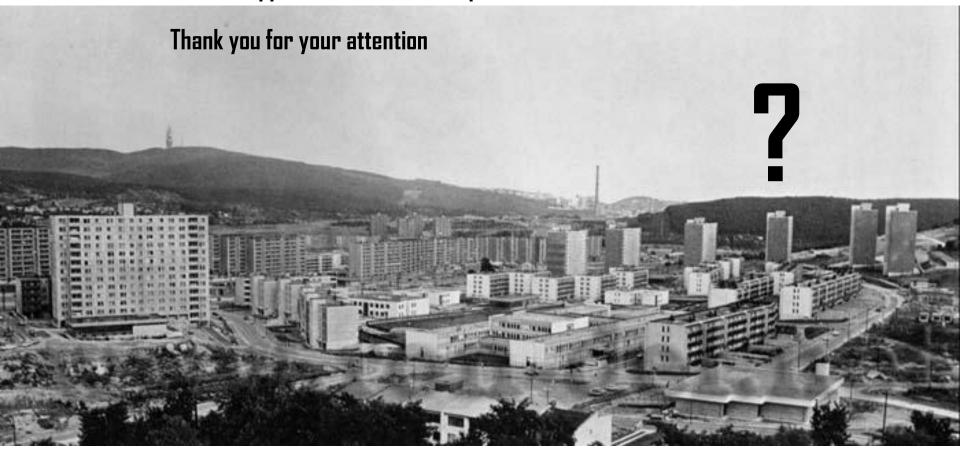
## **New planning system**

- simple
- flexible
- approved for planned development
- detailed in building scale



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