Pop-Up Urban Allotment Gardens –
How Temporary Urbanism Embraces the Garden Concept

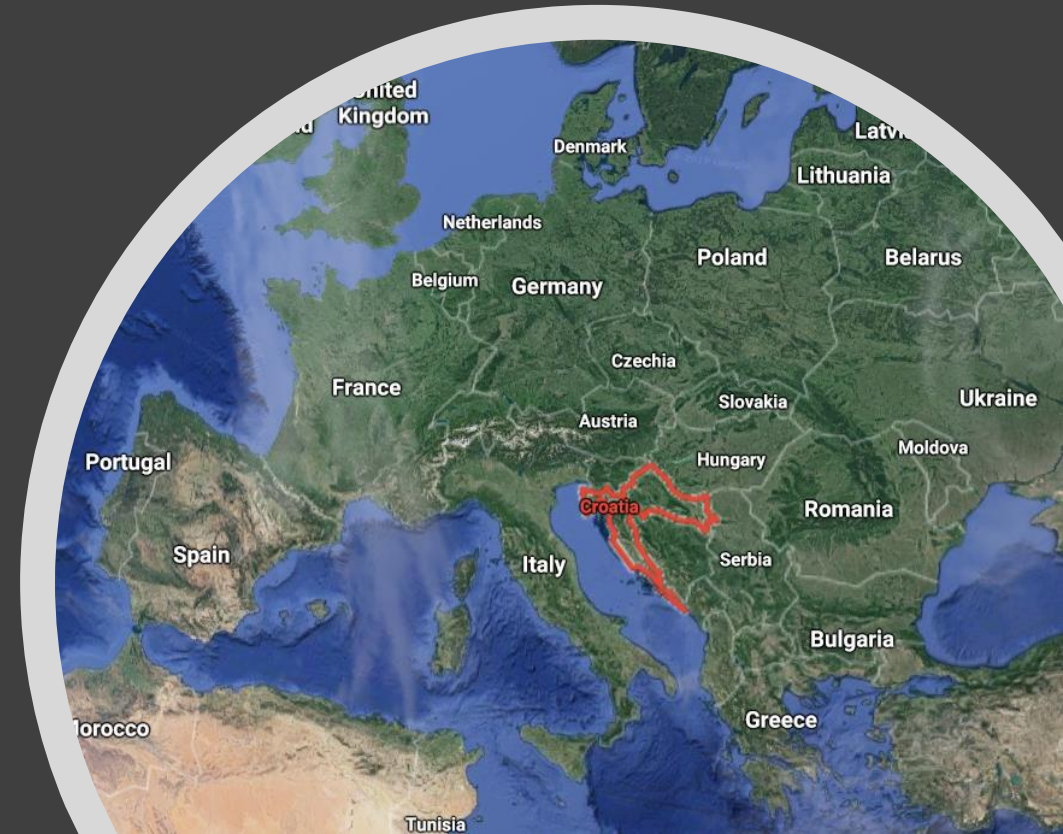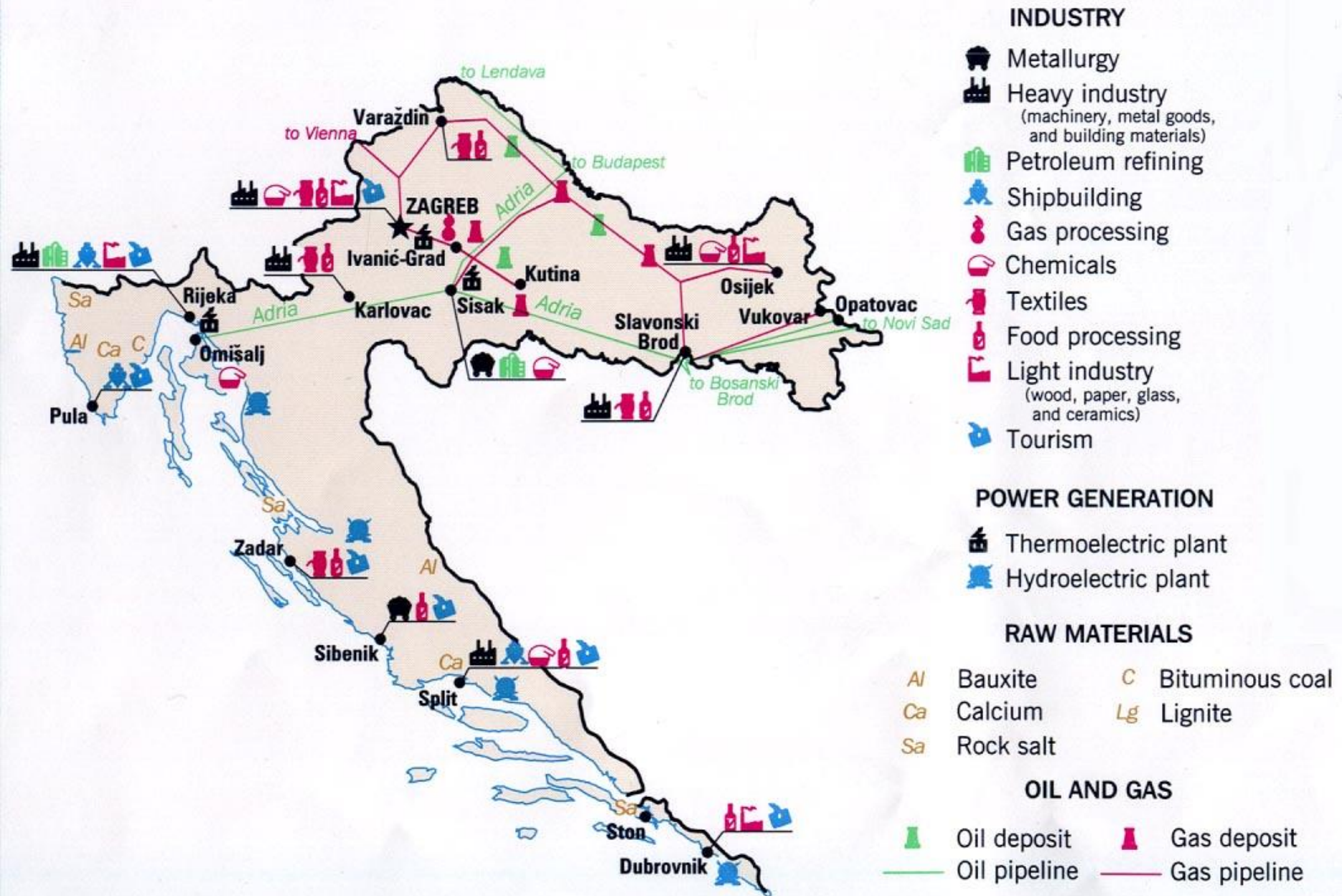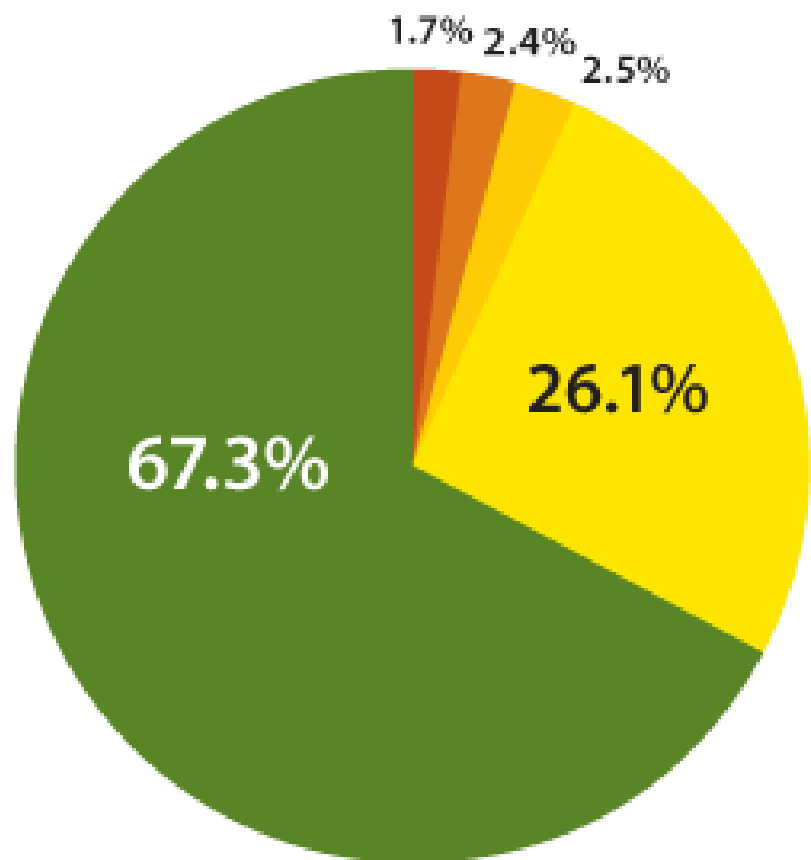Sara Ursic, Raseljka Krnic, & Anka Misetic

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Pop Up Example

Croatia

- Population – 4.15 million (2017)
- Area – 21,851 sq mi
- Pop. Density – 196.3 sq mi
- GDP (PPP) - $113 billion (2019)
    - $27,664 per capita
- GDP (nominal)
    - $15,317 per capita
- GINI – 29.7
- HDI – 0.831
- Major Industries
    - Shipbuilding
    - Construction
   - Petrochemicals
    - Food Processing
    - Tourism

Economy

INDUSTRY
- 🛢 Metallurgy
- 🏭 Heavy industry (machinery, metal goods, and building materials)
- 🏢 Petroleum refining
- ⚓ Shipbuilding
- 🔥 Gas processing
- 🧪 Chemicals
- 🧵 Textiles
- 🍾 Food processing
- 🏭 Light industry (wood, paper, glass, and ceramics)
- 🏖 Tourism

POWER GENERATION
- Thermoelectric plant
- Hydroelectric plant

RAW MATERIALS

Al	Bauxite	C	Bituminous coal
Ca	Calcium	Lg	Lignite
Sa	Rock salt		

OIL AND GAS
- Oil deposit
- Gas deposit
- Oil pipeline
- Gas pipeline

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- ● Arable land and gardens: 67.3%
- ● Grasslands, meadows and pastures: 26.1%
- ● Orchards: 2.5%
- ● Vineyards: 2.4%
- ● Olive groves, vegetable gardens and nursery gardens: 1.7%

HR: Urban Population as % of Total Population
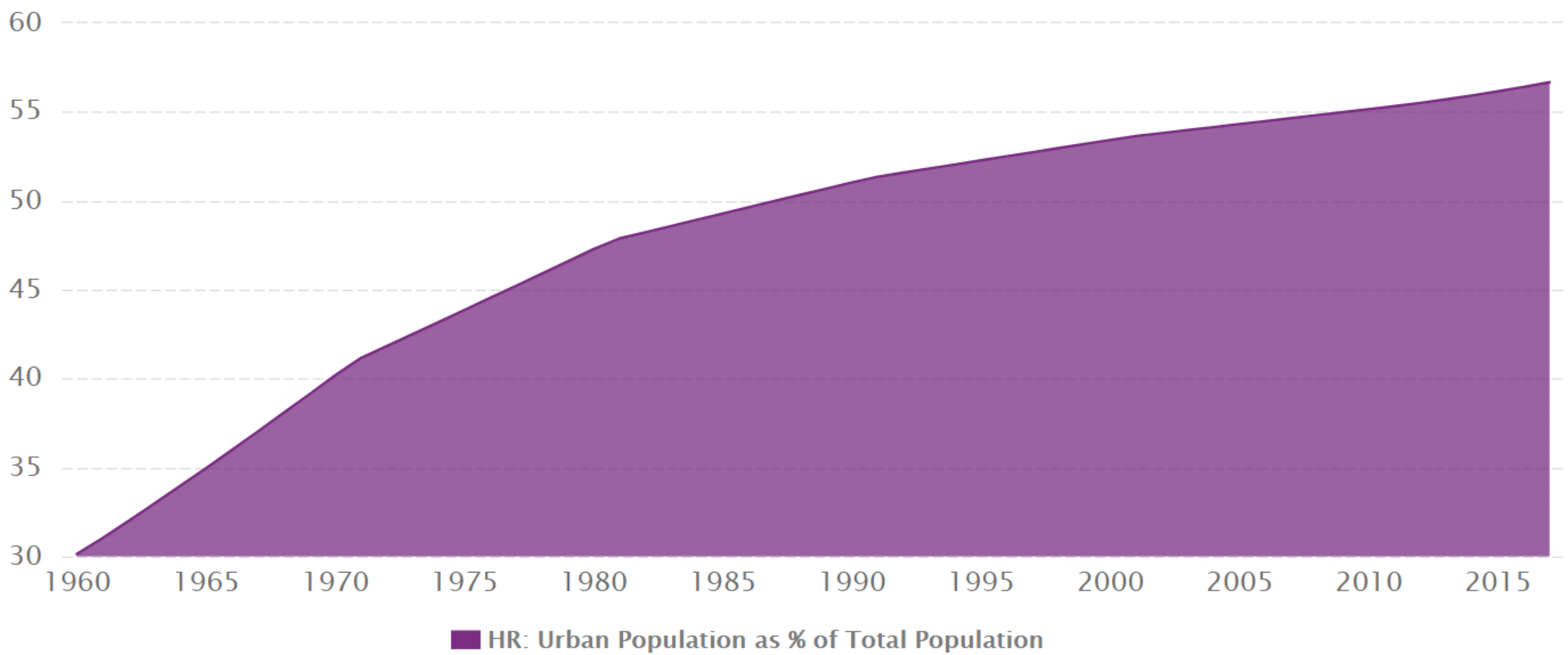
Zagreb, Croatia

- Population – 810,000 (2018)

  - Urban Agglomeration 1.2 million

- Area – 247.5 mi^2

  - Urban 62.6 mi^2

  - Metro 1,436 mi^2

- Pop. Density – 3,200 sq mi

  - Metro 790 sq mi

- GDP (PPP) - $25 billion (2017)

  - $32,000 per capita

- HDI – 0.89 (2017)

- Industry

  - Government

  - Tech

  - Services

- Known for

  - Diverse economy

  - High quality of life

  - Attractions (museums and entertainment)
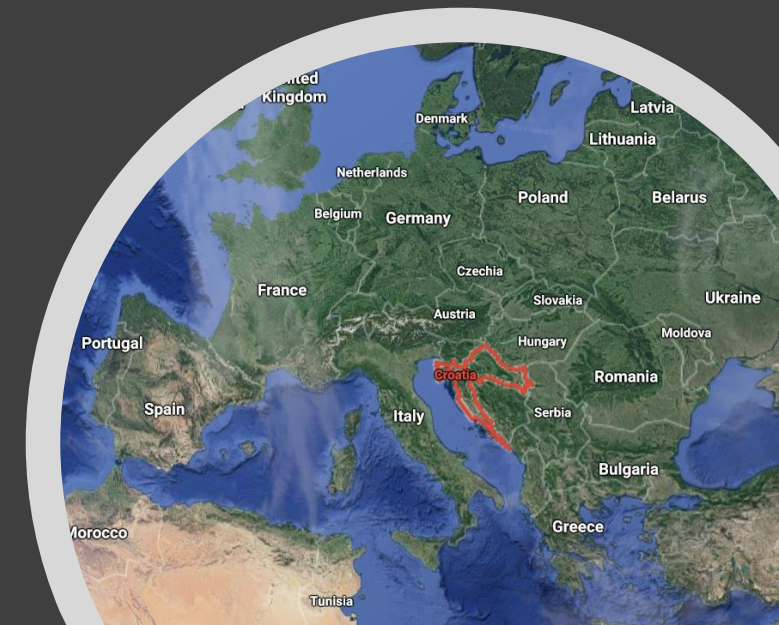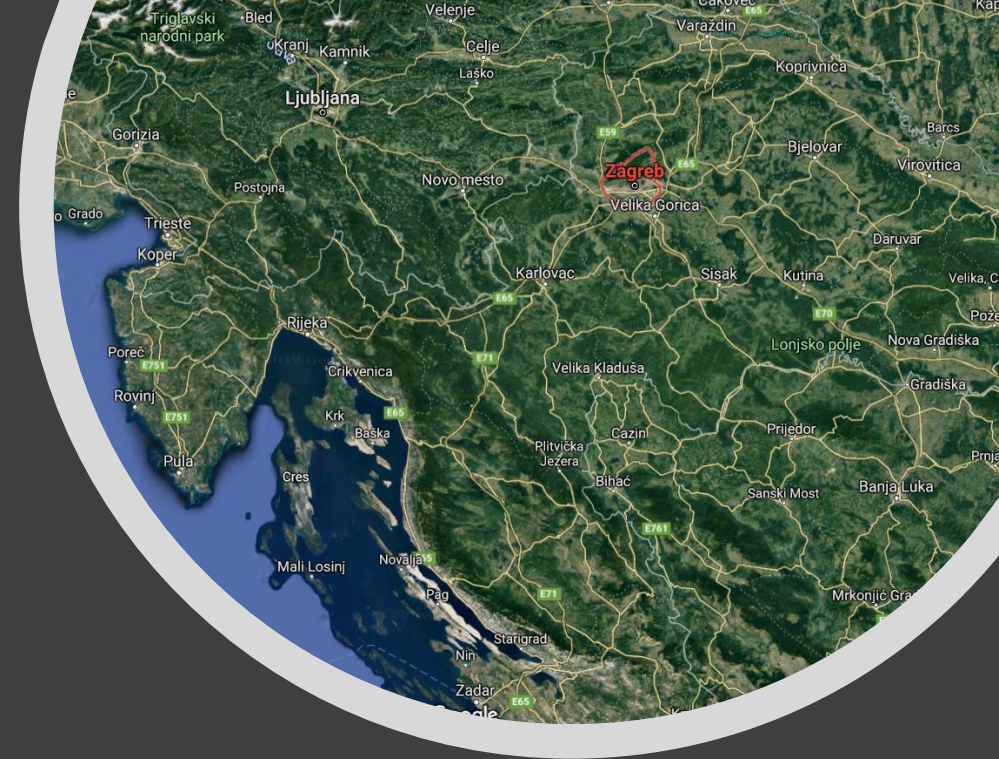
Central Issue

Urban Allotment

Connect Social to Urban Identity

Parks and Urban Gardens

- Permanent
- Small Scale
- Community Oriented
- Unplanned or Semi

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Urbanism

60 Urbanisms in 6 Categories
1. System
2. Green
3. Traditional
4. Community
5. Sociopolitical
6. Headline

Green Urbanism
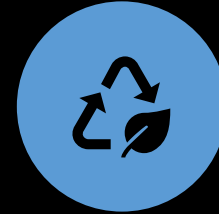

ECOLOGICAL

LANDSCAPE

SUSTAINABLE

ENVIRONMENTAL

CLEAN

AGRICULTURAL

Community Urbanism

PARTICIPATORY	INFORMAL	OPEN SOURCE	OPPORTUNISTIC
GUERILLA	INSTANT	POP-UP	TEMPORARY
	EVERYDAY		

3 Aspects to Green and Community Urbanism

PUBLIC POLICY OR ARE INDEPENDENT

TEMPORARY OR PERMANENT CHANGE OF SPACE

CHANGE, COMPLEMENT, OR RENEW SPACE

Study Participants

98 Architecture Students

1st Year Masters

30.6% Male & 69.4% Female

71.5% from Urban Environment

17.3% from Rural Setting

11.2% from Suburban

55.1% from House with Garden

44.9% from Apartment

Methods

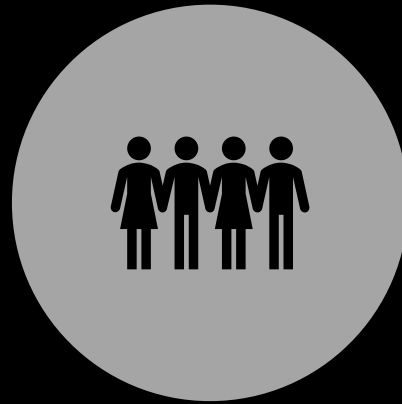ATTITUDES AND PERCEPTIONS

PARK AND GARDEN IN URBAN SPACE RELATIONSHIP
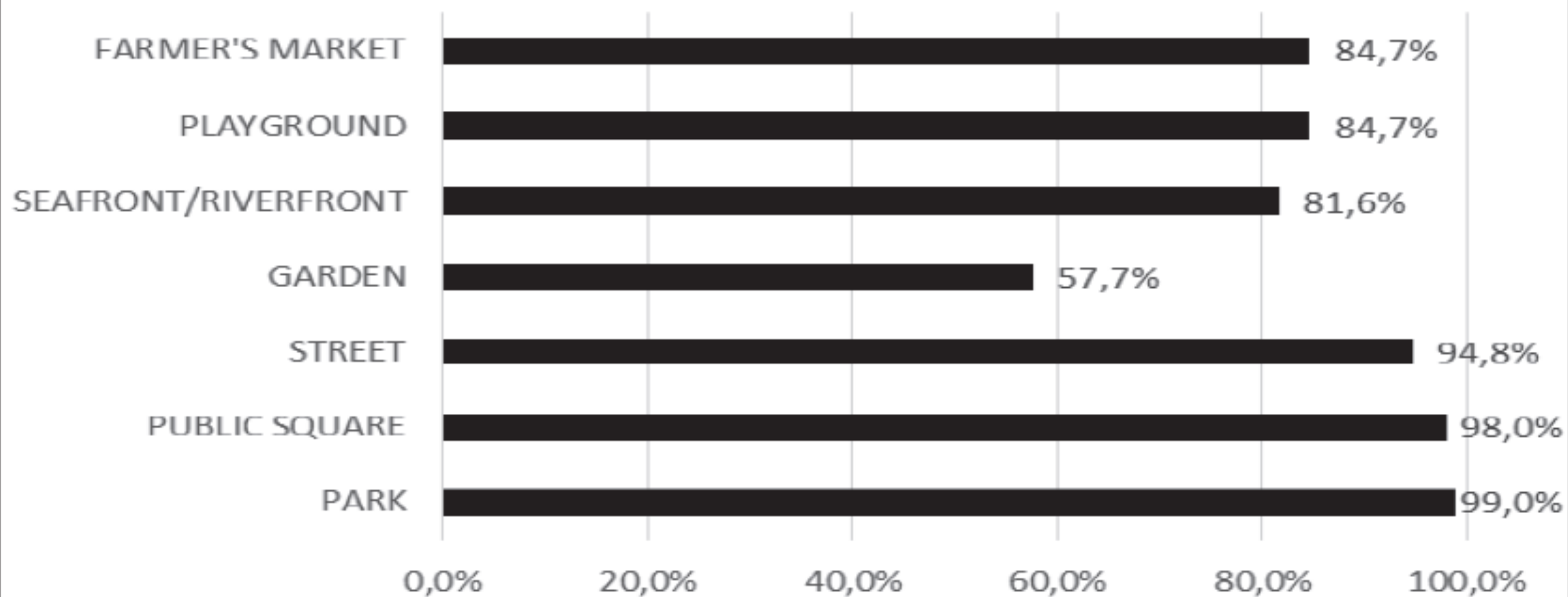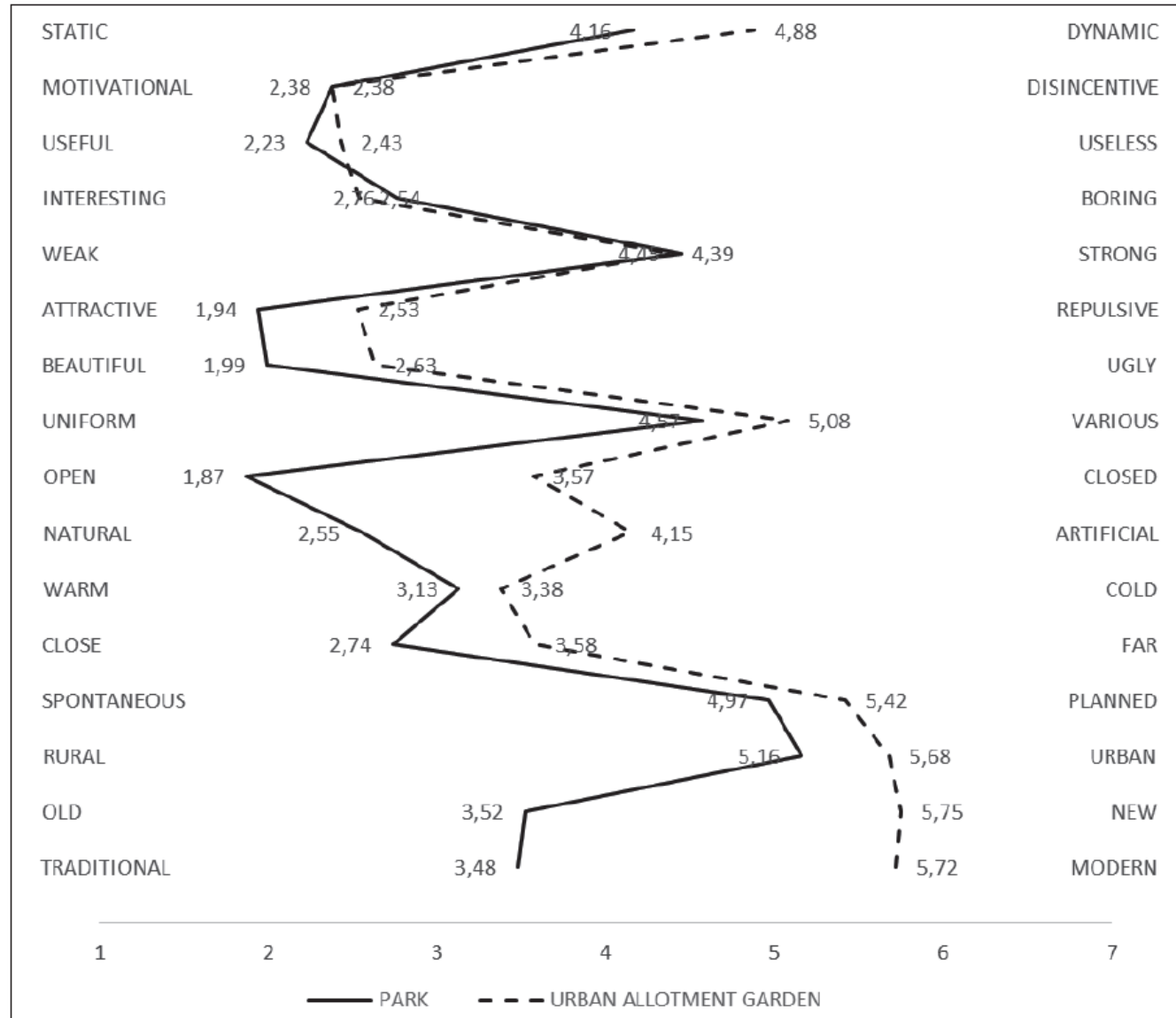
Factoring

1. ENVIRONMENTAL DIMENSION

2. SOCIAL DIMENSION

3. URBANISTIC DIMENSION

How relevant are public open spaces for cities? (% of answers quite important and extremly important)

Category	Value
FARMER'S MARKET	84,7%
PLAYGROUND	84,7%
SEAFRONT/RIVERFRONT	81,6%
GARDEN	57,7%
STREET	94,8%
PUBLIC SQUARE	98,0%
PARK	99,0%

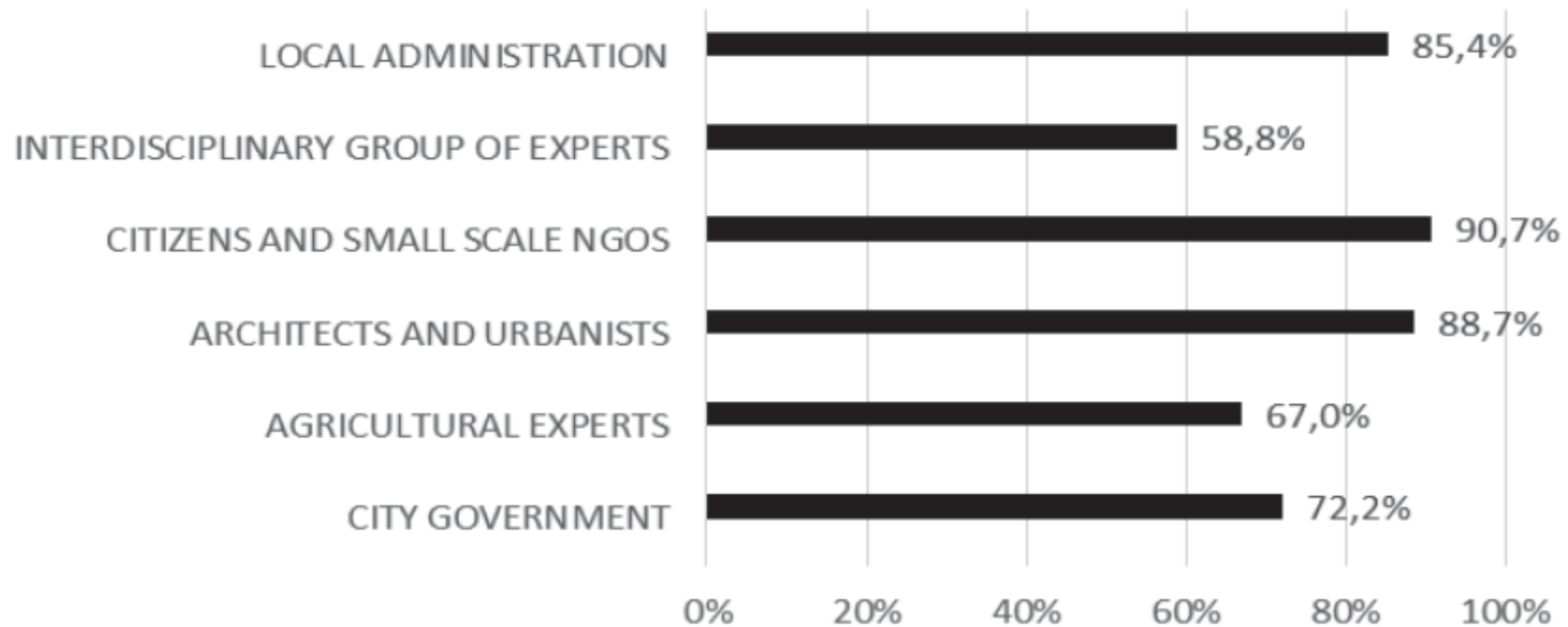| Left	PARK	URBAN ALLOTMENT GARDEN	Right
STATIC	4,16	4,88	DYNAMIC
MOTIVATIONAL	2,38	2,38	DISINCENTIVE
USEFUL	2,23	2,43	USELESS
INTERESTING	2,16	2,54	BORING
WEAK	4,43	4,39	STRONG
ATTRACTIVE	1,94	2,53	REPULSIVE
BEAUTIFUL	1,99	2,63	UGLY
UNIFORM	4,51	5,08	VARIOUS
OPEN	1,87	3,57	CLOSED
NATURAL	2,55	4,15	ARTIFICIAL
WARM	3,13	3,38	COLD
CLOSE	2,74	3,58	FAR
SPONTANEOUS	4,97	5,42	PLANNED
RURAL	5,16	5,68	URBAN
OLD	3,52	5,75	NEW
TRADITIONAL	3,48	5,72	MODERN

PARK — — — URBAN ALLOTMENT GARDEN

1 2 3 4 5 6 7

What are the most important functions of urban allotment gardens in cities?
(% of answers quite important and extremly important)

Function	Percentage
RECREATION, PHYSICAL ACTIVITY	70,4%
RELAXATION, STRESS RELIEF	93,9%
EDUCATING YOUNG POPULATION	65,3%
CITY AESTHETICS	70,4%
SPENDING LESS ON FOOD	33,7%
INCREASING GREENERY AREA	79,6%
ORGANIC FOOD SUPPLY	44,9%
HANGING OUT, SOCIALIZING	73,5%
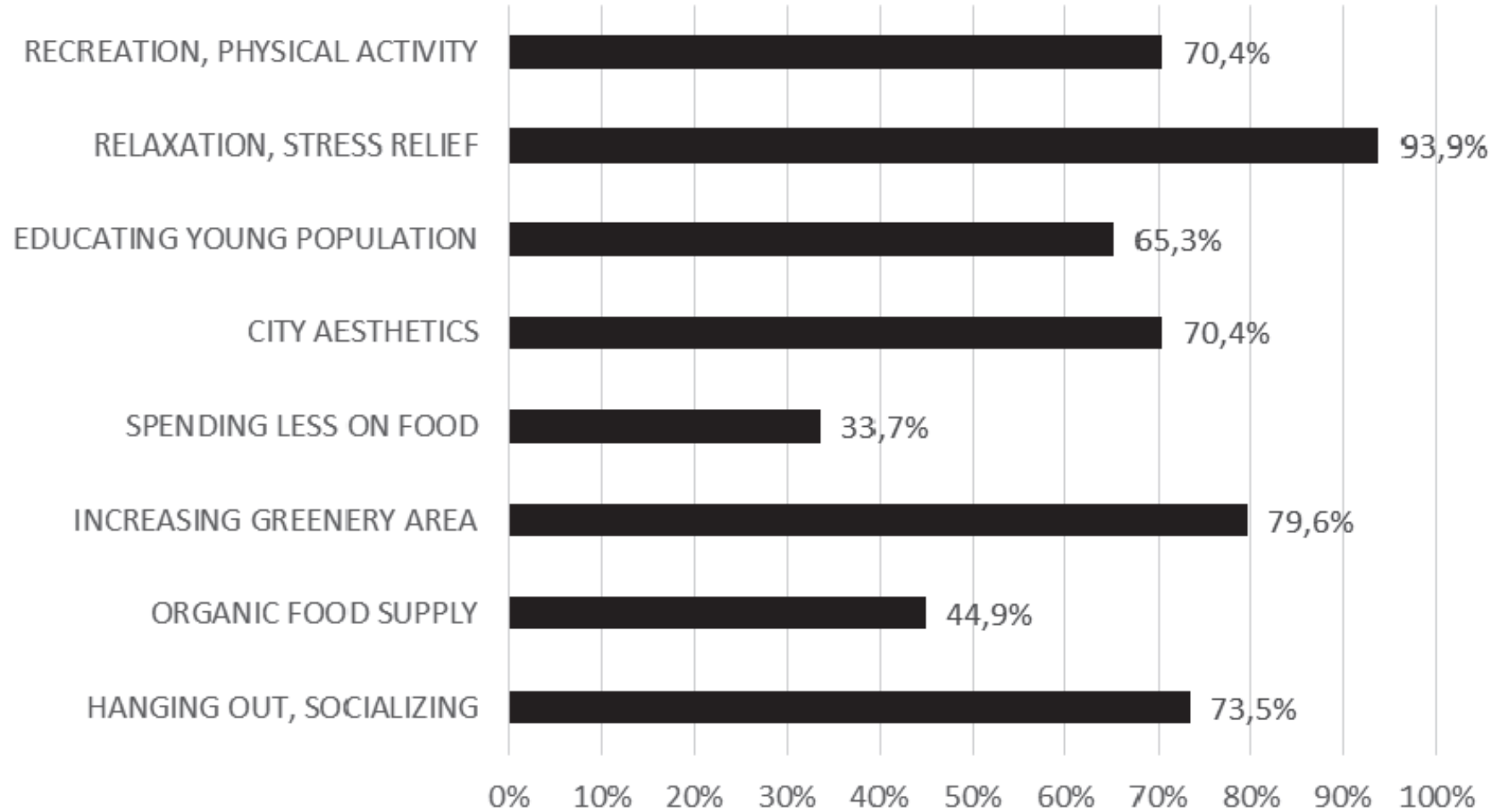
Who should have the most important role in decision-making on projects regarding urban allotment gardens? (% of answers quite important and extremly important)

LOCAL ADMINISTRATION — 85,4%
INTERDISCIPLINARY GROUP OF EXPERTS — 58,8%
CITIZENS AND SMALL SCALE NGOS — 90,7%
ARCHITECTS AND URBANISTS — 88,7%
AGRICULTURAL EXPERTS — 67,0%
CITY GOVERNMENT — 72,2%

Conclusion

- Urban gardens COULD unite postmodern urbanism

- Public consensus conservatively NOT in favor for urban gardens

- Bear elements of modern RECONCEPTUALIZATION of urban space

- Paradigm shift from rigid openness and static to MULTI-USE temporary urbanism

- Urban allotment garden REFLECT temporality, mobility, and availability

Thank You

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