DEVELOPMENT OF THE LOCAL AGENDA 21 IN THE CITY OF KIELCE BASED ON GEOGRAPHICAL INFORMATION SYSTEM

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GEOGRAPHICAL INFORMATION SYSTEM IN KIELCE
PARTICIPANTS AND CORRELATIONS IN PLANNING AND MANAGEMENT OF SUSTAINABLE DEVELOPMENT

SOCIETY
PEOPLE’S AUTHORITY

Spatial Management

The key to success of the process is

INFORMATION:
What? Who? Where?
When? How? What outcome?
How much?

MARKET:
ECONOMIC POWER
Land owners
Designers, Industry
Financial institutions

STATE:
GOVERNMENT POWER
Local Governments
Courts

Growth management
Regulations applicable to planning and design

Cooperation

Human health
Nature

Environment

Society’s contribution
Market trends
Cooperation

Society’s involvement
Political pressure
Cooperation
The Preamble of Agenda 21 states that implementing the strategies, is a dynamic process which is a beginning of the new global partnerships for sustainable development. It means that this process should make progress in accordance with all recommendations contained in the Rio Declaration on Environment and Development, and should be realized by different national and regional units, so also at local level by local governments.
City Council: GIS as a tool for environmental and sustainable development management (2006)

Approach to the implementation of GIS similar to the development of a management system

Planning of the system with a great emphasis on users’ needs
SECOND ATTEMPT

LEIPZIG CHARTER 2007

EU THEMATIC STRATEGY: URBAN ENVIRONMENT 2007

KIELCE 2010

SUCCESS ??

GEOGRAPHICAL INFORMATION SYSTEM IN KIELCE
PARTICIPANTS AND CORRELATIONS IN PLANNING AND MANAGEMENT OF SUSTAINABLE DEVELOPMENT

GIS MEANS A PLATFORM FOR COOPERATION AND INFORMATION EXCHANGE

GEOGRAPHICAL INFORMATION SYSTEM IN KIELCE
PARTICIPANTS AND CORRELATIONS IN PLANNING AND MANAGEMENT OF SUSTAINABLE DEVELOPMENT

SOCIETY
PEOPLE’S AUTHORITY

Spatial Management

NATURAL ENVIRONMENT
Ekosystems
Human health
Natural hazards

Society’s contribution
Market trends
Cooperation

Society’ involvement
Political pressure
Cooperation

MARKET:
ECONOMIC POWER
Land owners
Designers, Industry
Financial institutions

GROWTH MANAGEMENT
Growth management
Regulations applicable to planning and design
Cooperation

STATE:
GOVERNMENT POWER
Local Governments
Courts

GEOGRAPHICAL INFORMATION SYSTEM IN KIELCE
GIS offers an opportunity of:

• Management of all sustainable development processes
• General access to the system in the City Hall and municipal units
• General access of city dwellers to information via the Geoportal Website
• Management of administrative procedures (E-office)
GIS IN EDUCATION FOR SUSTAINABLE DEVELOPMENT

GEOGRAPHICAL INFORMATION SYSTEM IN KIELCE
GIS AS A PLATFORM FOR INTEGRATION OF SUSTAINABLE DEVELOPMENT POLICIES
ANALYSIS OF LIVING CONDITIONS IN KIELCE

Density of population

Unemployment

Availability of healthcare

Availibility of transport

Availability of parks

Migrations

BASED ON URBAN AUDIT

GEOGRAPHICAL INFORMATION SYSTEM IN KIELCE
NATURAL PREDETERMINATIONS OF LAND

Geology

Topographic profile

Land surface features

Directional view

Protected areas

Predeterminations for specific functions

GEOGRAPHICAL INFORMATION SYSTEM IN KIELCE
ENVIRONMENTAL AND SUSTAINABLE DEVELOPMENT MANAGEMENT

- Status, diagnosis
- Update

INDICATORS

- Status and diagnosis,
- Objectives and tasks
- Indicators, monitoring

MONITORING

- Monitoring
- of environment
- of spatial policy
- of relevant actions
- of outcomes

ENVIRONMENTAL PROTECTION AND SUSTAINABLE DEVELOPMENT PLANS

QUALITY

GEOGRAPHICAL INFORMATION SYSTEM IN KIELCE
SUMMARY

As early as halfway to the accomplishment of our GIS project as a platform for cooperation, it turns out to be successful.

We think that we are creating a good practice of the use of GIS in planning integration processes and acting for the benefit of sustainable development of urban organisms.

We look forward to hearing your experience.

We hope for learning a lot and continue to improve our use of GIS.
Thank you for your time and appreciation!
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