

UN-GGIM: Europe
Work Group A « Core Data »

Use case maps



UN-GGIM: EUROPE

UNITED NATIONS INITIATIVE ON
**GLOBAL GEOSPATIAL
INFORMATION MANAGEMENT**



Annex I



UN-GGIM: EUROPE

UNITED NATIONS INITIATIVE ON
GLOBAL GEOSPATIAL
INFORMATION MANAGEMENT



AD

source

census (PD) –
candidate theme for point based statistics

analysis

Locate where
the people are

Locate POI
(accessibility)

Alternative way to
locate activities (PF, AF,
US)

operational

decision

Locate issues (risk,
breakdown...)

Locate and perform
economic activities
(geomarketing, delivery of
mails...)

communication

Background 2D city
map

monitoring

AU

For NUTS-LAU (SU)

Part of cadastral hierarchy

source
Part of AD hierarchy

Useful to « cut » other data sets – delivery unit

analysis

Assess number of persons

Locate area of responsibility

Location for statistical studies

operational

decision

Find responsible authority

communication

Background 2D map

monitoring

Location for reporting

Make people aware of public regulations

source

candidate theme for point based statistics

analysis

Understand landscape structure (property size) and its evolution

Locate public land

operational

decision

communication

monitoring

Find owners (for target communication)

Delivery of permits

Land transaction /reorganisation

Locate phenomenon on (cadastral) background 2D map

Find owner (environmental police)

Make people aware of public regulations

GN

source

Search criteria
(GeoPortal)

Part of AD
hierarchy

analysis

Locate where
the people are

operational

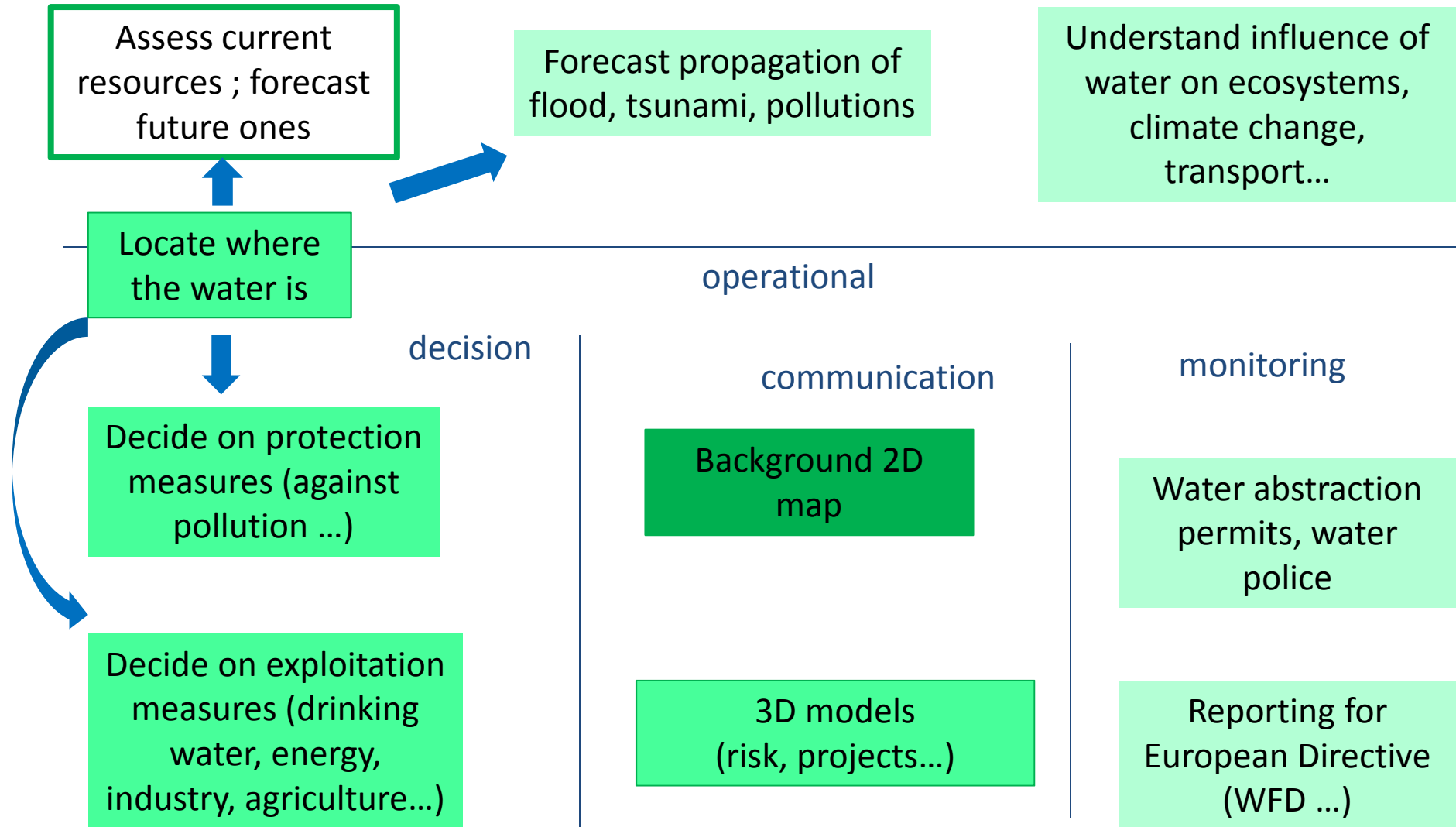
decision

communication

monitoring

Background 2D
map

3D models
(risk, projects...)



analysis

State-of-play of existing regulations before launching a new one

Valuable asset (risk, tourism,...)

operational

decision

Capture the area to be protected

Find relevant place (from legal point of view) for new project

Get responsible party

communication

Make people aware of protected areas

monitoring

To deliver permits

Indicator for SDG Monitoring for European Directives

Assess environmental impact of new projects

source

analysis

Locate issues (road accidents, noise, air pollution, break in ecological network...)

Understand propagation of phenomena (cities, invasive species,...)

Accessibility studies

operational

decision

Find relevant place (accessibility, mitigation)

Prepare itineraries (emergency, public transport ...)

communication

Background 2D map

3D models (risk, projects...)

monitoring

Accessibility indicators (SDG)

Delivery of permits (waste transport...)

Annex II



UN-GGIM: EUROPE

UNITED NATIONS INITIATIVE ON
GLOBAL GEOSPATIAL
INFORMATION MANAGEMENT



EL

To make OI

source

To delimit
DrainageBasins (HY)

analysis

Forecast propagation of
physical phenomena (risk,
water, sun, pollution,
winds)

Understand
influence on
ecosystems and
climate change

Influence city
spreading

operational

decision

Find relevant place
for project (slope,
sun, visibility,...)

Find relevant activity
on given area
(species...)

communication

Background 2D
map

3D models
(risk, projects...)

monitoring

Protection of
landscapes
(visibility)

OI

To derive
LC/existing LU

source

Help for topographic
data

analysis

Locate phenomena
(pollution, heat loss,
invasive species,....)

operational

decision

Locate eligible area
to CAP

communication

Background 2D
map

3D models
(risk, projects...)

monitoring

Checking
(damages,
regulations, ...)

LC

source

analysis

Locate places of interest (forests, built-up areas, wetlands...)

Ecosystem studies (ecological network, ecosystem accounts....)

Assess/forecast biomass and greenhouse stock

Understand /forecast propagation of phenomenon (erosion, pollution, water-flood, urban spreading)

operational

decision

Find relevant place for projects

Decision making: spatial planning, agricultural good practices, ...

communication

Background 2D map

3D models (risk, projects...)

monitoring

Derive indicators (soil sealing, soil erosion, land take.....) for SDG and European Directives

GE

Source data for MR

source

Source data for ER

analysis

Understand pollution propagation

Detect geo-hazards

Locate underground water

operational

decision

Find relevant place for project (stability, nuclear waste storage, tunneling...)

communication

monitoring

Reporting for WFD (underground water)

Annex III



UN-GGIM: EUROPE

UNITED NATIONS INITIATIVE ON
GLOBAL GEOSPATIAL
INFORMATION MANAGEMENT



SU - PD

source

analysis

Make socio-economic studies
(poverty, education...)

Assess human pressure on ecosystems, on resources

Make accessibility studies

Assess number of people in area of interest (risk, pollution, public service)

operational

decision

communication

monitoring

Assess requirements (transport, dwelling, waste....) => city management

Reporting for European Directives (noise, air...)
Potential indicators for SDG

BU

To derive
LC/existing LU

source

Census - Candidate theme for
point-based statistics (PD)

analysis

Forecast propagation of
physical phenomena (wind,
sun, air pollution, ...)

Assess building
characteristics
(vulnerability,
quality, value)

Understand urban
topics
(spreading....)

Locate where
the people
are

operational

Assess number of
people in area of
interest (risk,
pollution)

↓
decision

Find relevant place for
new project

communication

Make 2D
background map

Make 3D models
(risk, projects...)

monitoring

Report for European
Directives (flood, noise,
air...)

Minimum distance from
BU in many regulations

LU (planned)

source

analysis

State-of-play of existing regulations before launching a new one

operational

decision

communication

monitoring

Capture decision (best link between places and activities)

Make people aware of spatial planning

To deliver permits

Find relevant place (from legal point of view) for new project

Assess environmental impact of new projects

**close to AM*

LU (existing)

source

analysis

Locate places of interest

Assess activities and pressure on environment

Understand /forecast propagation of phenomenon (urban spreading ...)

Derive indicators for SDG and European Directives

operational

decision

Find relevant place for projects

communication

monitoring

* Close to LC

SO

source

analysis

Understand influence on phenomenon (water, pollution, health, landslide...)

Forecast agricultural/forest production

operational

decision

Locate relevant places for projects

Locate relevant places for regulation

Decide on relevant activities (irrigation, depollution, species...)

communication

monitoring

Asset to be protected

Derive indicators (erosion, salinity...)

HH

source

analysis

operational

decision

Help for decision
making

communication

monitoring

Assess influence of
pollutions, climate
change ... on
human health

US

source

analysis

Make accessibility studies
(water, energy, basic services,
education...)

Source of risk
(electric lines) or
pollution (waste)

operational

decision

Public service
management (emergency,
waste,

Locate relevant places for
new services

communication

Avoid digging
accidents

monitoring

People in schools,
hospitals exposed to
flood, to air or noise
pollution ...
(European Directives)

EF

source

analysis

operational

decision

communication

monitoring

Warning systems
(pollutions,
leakages)

Measuring
characteristics of
air, soil, water,
ecosystems

PF

source

analysis

Locate key assets
(power plants)

Locate sources of
pollution and risks

Make studies on
economy and
accessibility

Assess and forecast
requirements of
resources (land,
water, energy)

operational

decision

communication

monitoring

AF

source

analysis

Understand
interrelation with
water, ecosystems
(pollution....)

Make studies on
food production

operational

decision

Help to run
agricultural
activities

communication

monitoring

State-of-play of existing regulations before launching a new one

operational

decision

Capture the area to be regulated

Find relevant place (from legal point of view) for new project

communication

Make people aware of protected areas

monitoring

To deliver permits

Monitoring for European Directives

Assess environmental impact of new projects

AC-MF

source

analysis

Forecast hazard
(flood, storm..) and
hazard propagation
(fire, pollution...)

Make studies
on climate
change

Forecast impact
on ecosystems
(desertification,
erosion, water
reserves...)

Forecast
production
(agriculture,
forest)

operational

decision

Locate relevant places for
sun or wind energy

Help running activities
(agriculture ...)

communication

monitoring

NZ

source

analysis

Locate hazards and risks

operational

decision

communication

monitoring

Input data for communication to citizens and spatial planning

OF

source
analysis

Understand impact on coastal areas (flood, erosion, ecosystems, aquaculture) and on climate

Manage the
"blue"
economy

operational

decision

communication

monitoring

Assess ocean water quality, ocean health, marine environment

Draft indicator for
SDG (acidity)

SR

source

analysis

Understand impact on flood,
pollution ...

Assess fish stock

operational

decision

communication

monitoring

Background data

BR-HB-SD

source

analysis

Understand ecosystems,
assess their value

Manage
resources
(SD)

operational

decision

communication

monitoring

Input data for actions
(protection, project
assessment,)

Report to
European
Directives

ER

source

analysis

Assess energy
resources

operational

decision

Find relevant location
for energy

communication

monitoring

ER

source

analysis

Source of
pollution

Assess mineral
resources

operational

decision

communication

monitoring