

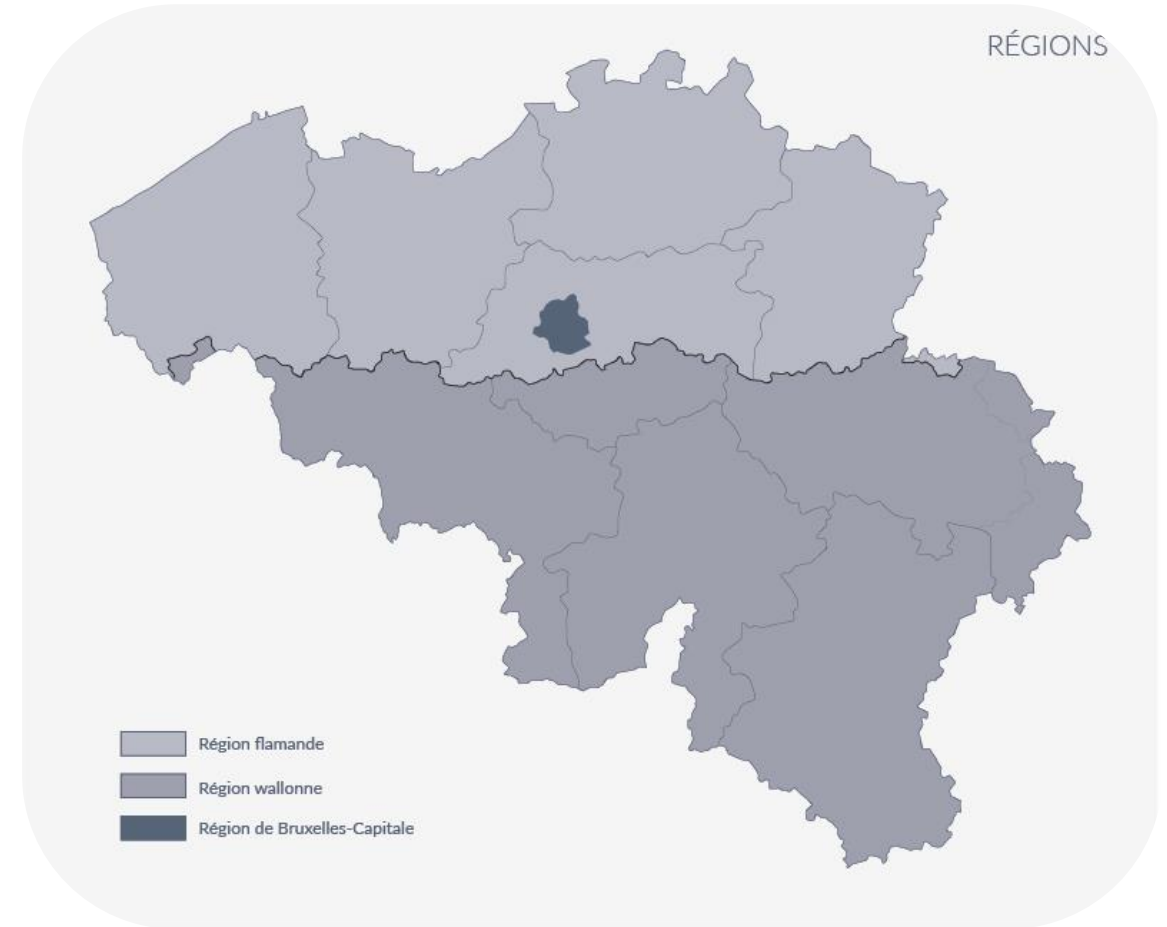
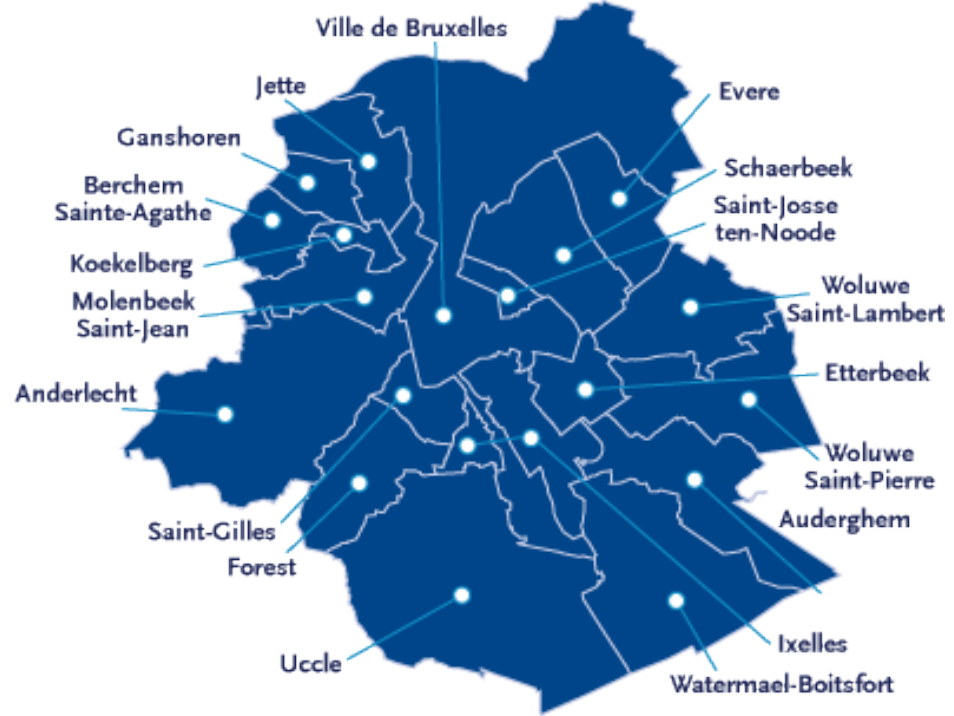


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THE CHALLENGES OF RENATURATION
IN THE BRUSSELS REGION



JULIEN RUELLE – 15/02/2024



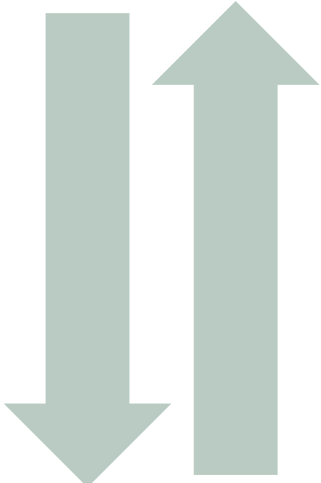
Nature

Urban greening

- Nature-based solutions
- Demineralization
- SuDS
- Green network
- Socio-recreational function

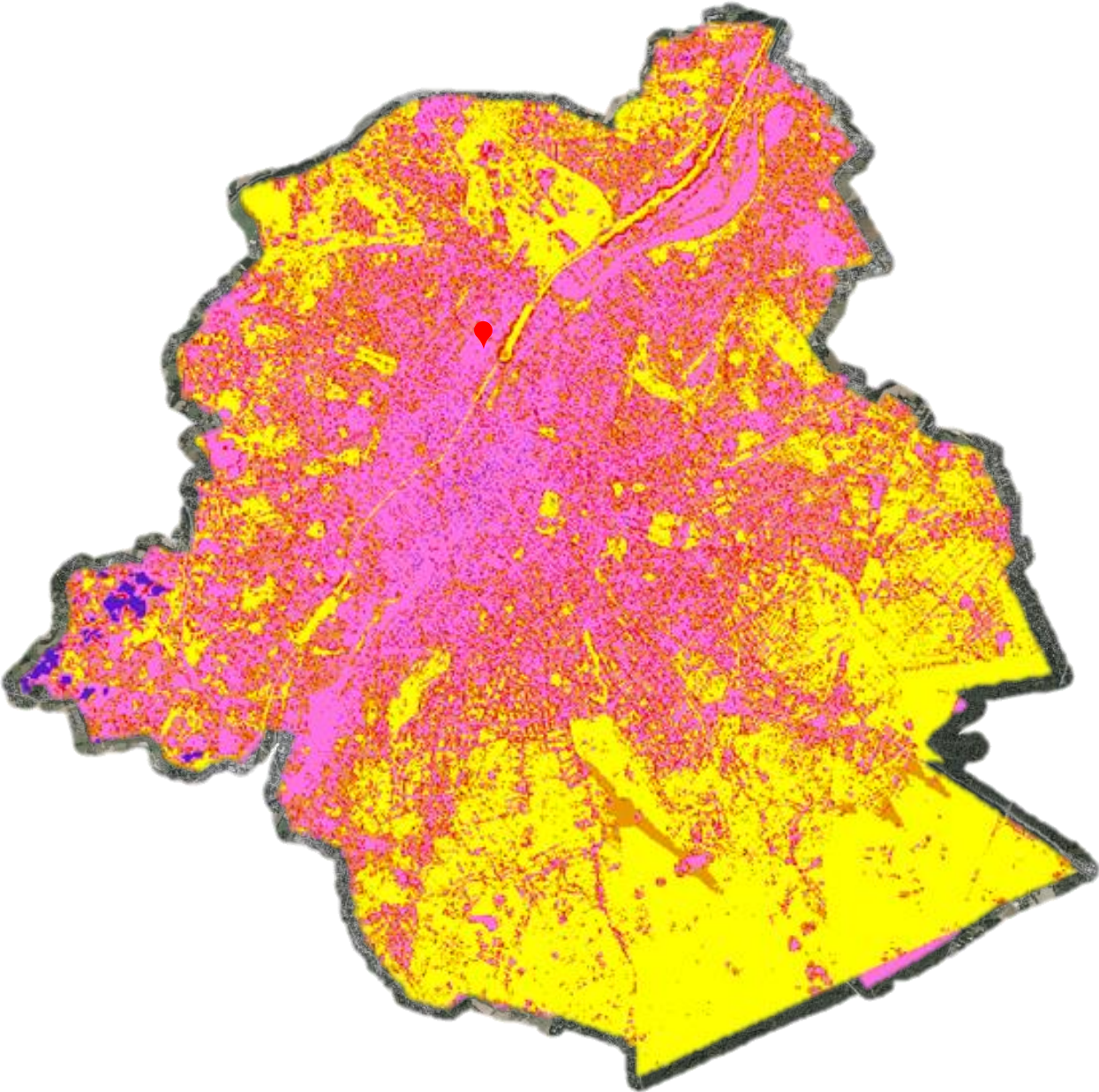
Restoration & Reconnection

- Conservation zones
- Protected species & habitats
- Natura 2000
- Ecological network



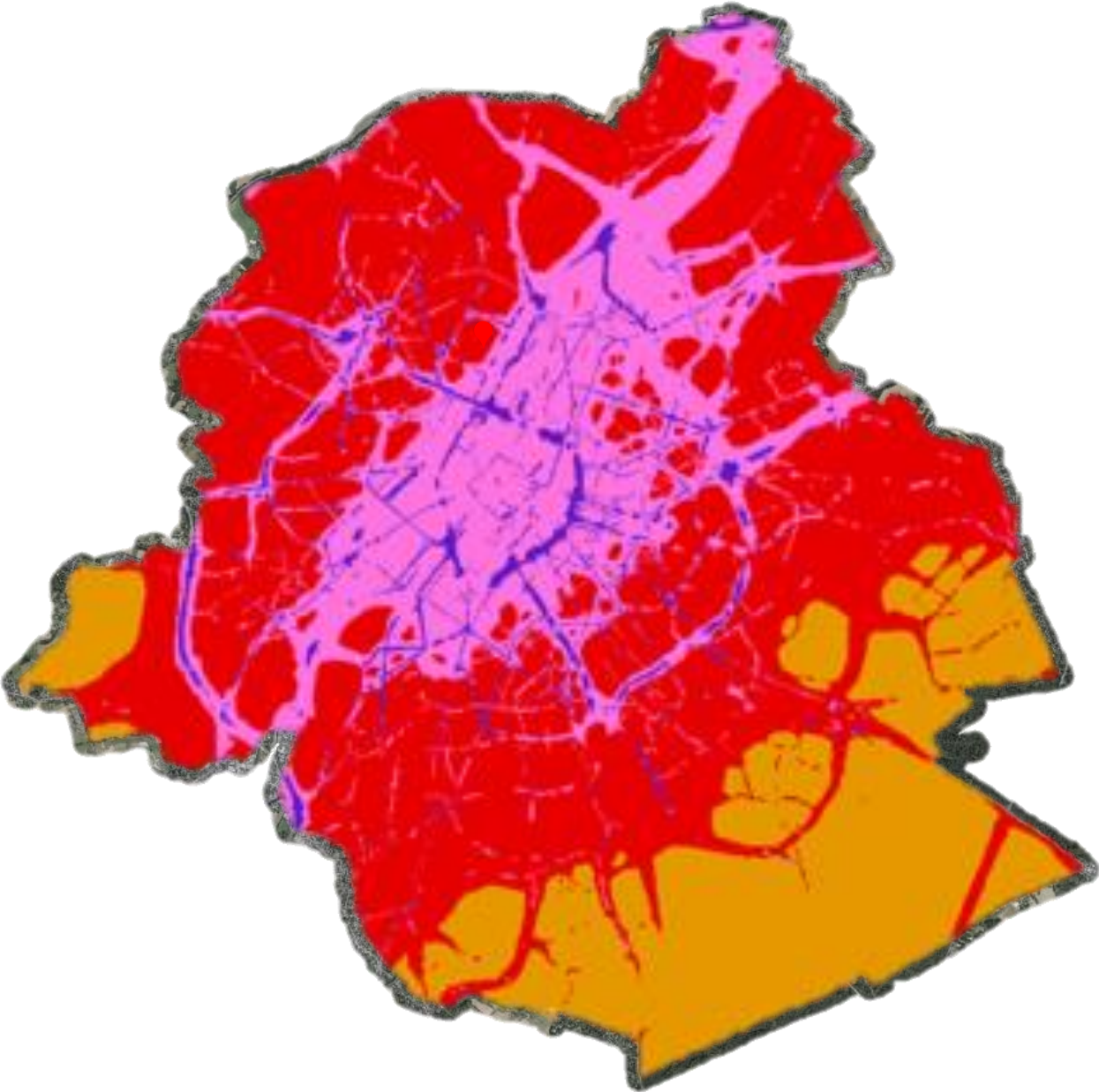
Adaptation - Resilience

Heat island effect



Heat island effect

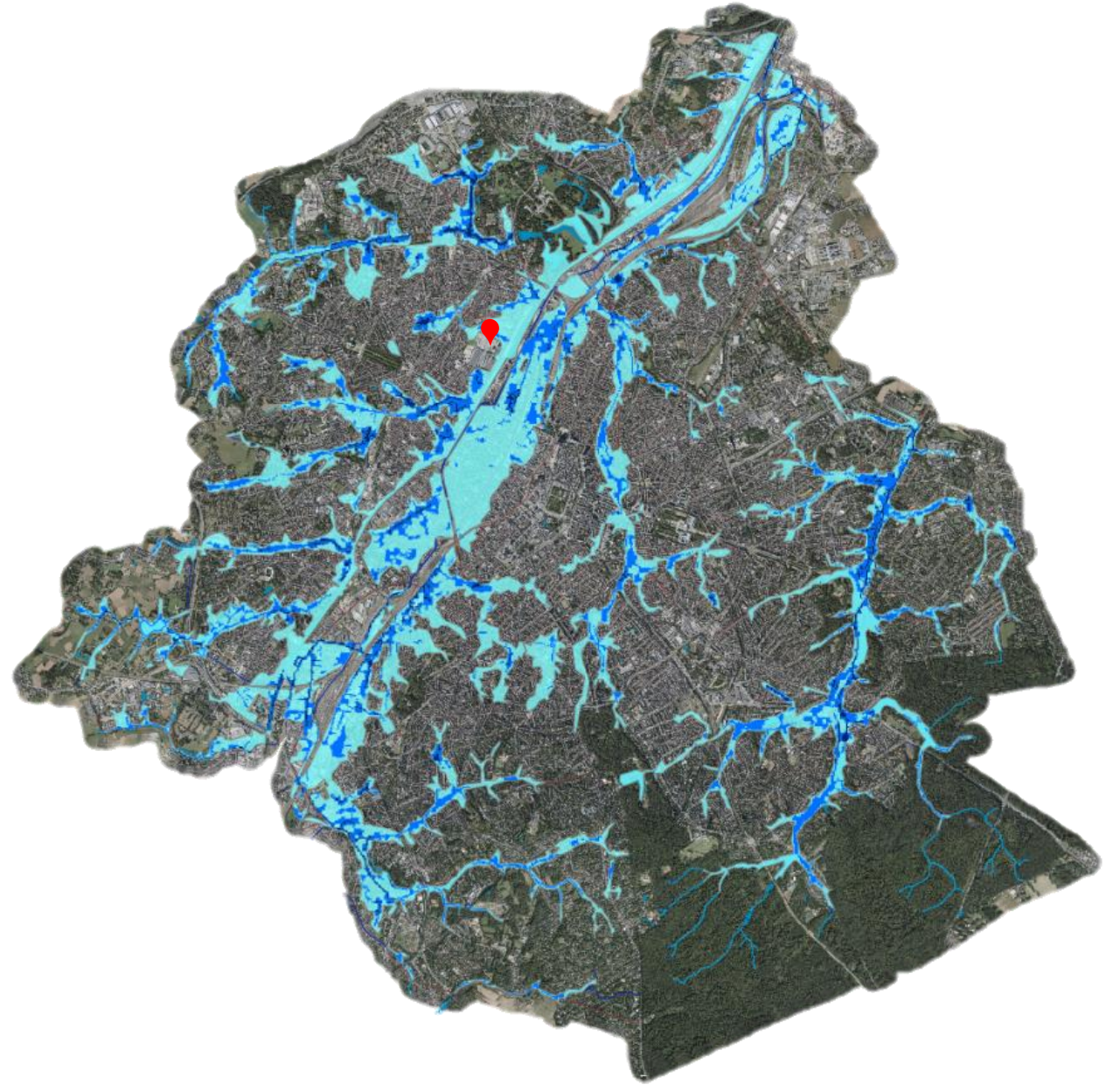
Air quality



Heat island effect

Air quality

Flood risk



Heat island effect

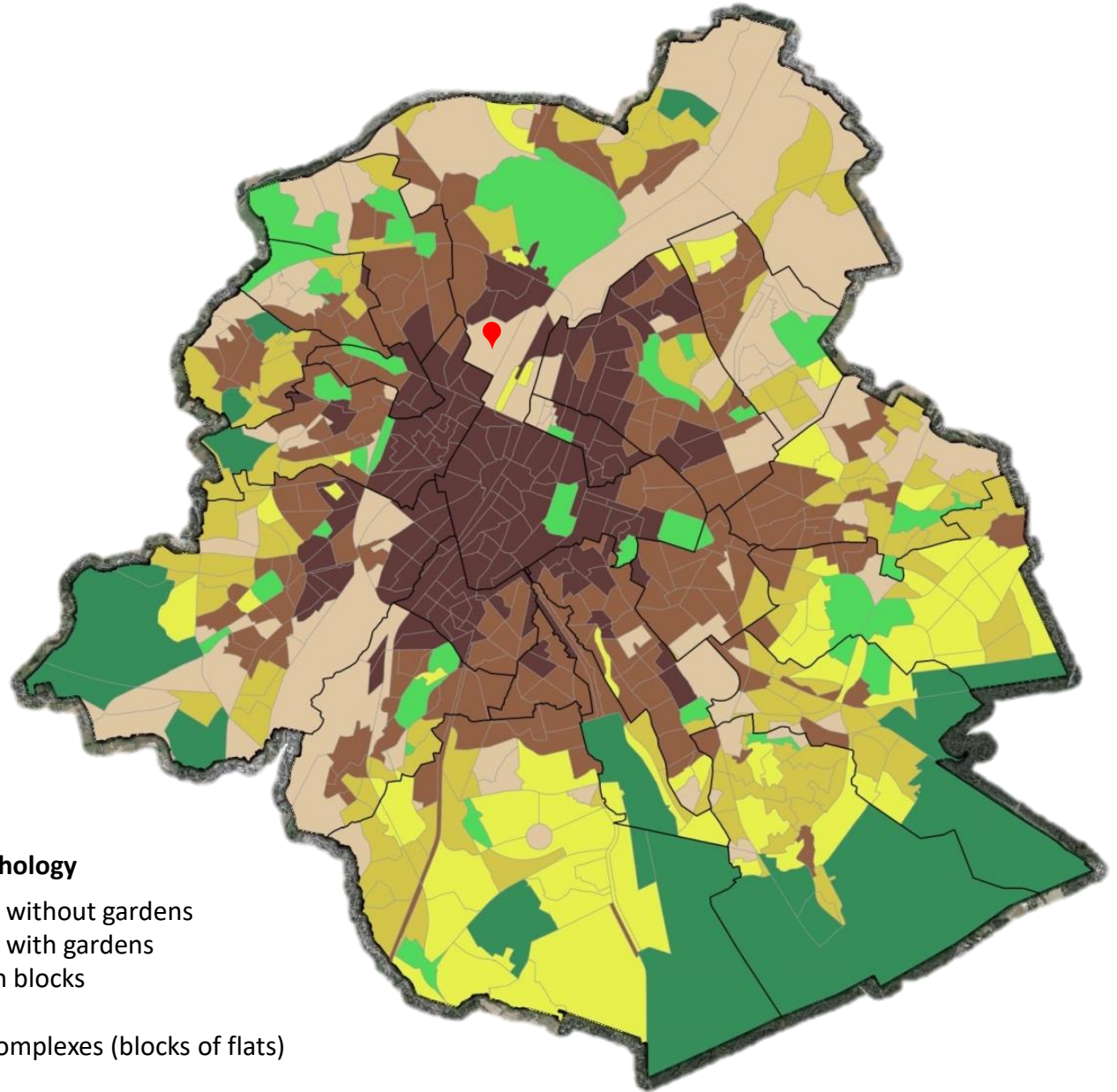
Air quality

Flood risk

Urban typology

Urban Typomorphology

- Dense blocks without gardens
- Dense blocks with gardens
- Partially open blocks
- Open blocks
- Large open complexes (blocks of flats)
- Large parks
- Agricultural land, woods and forests



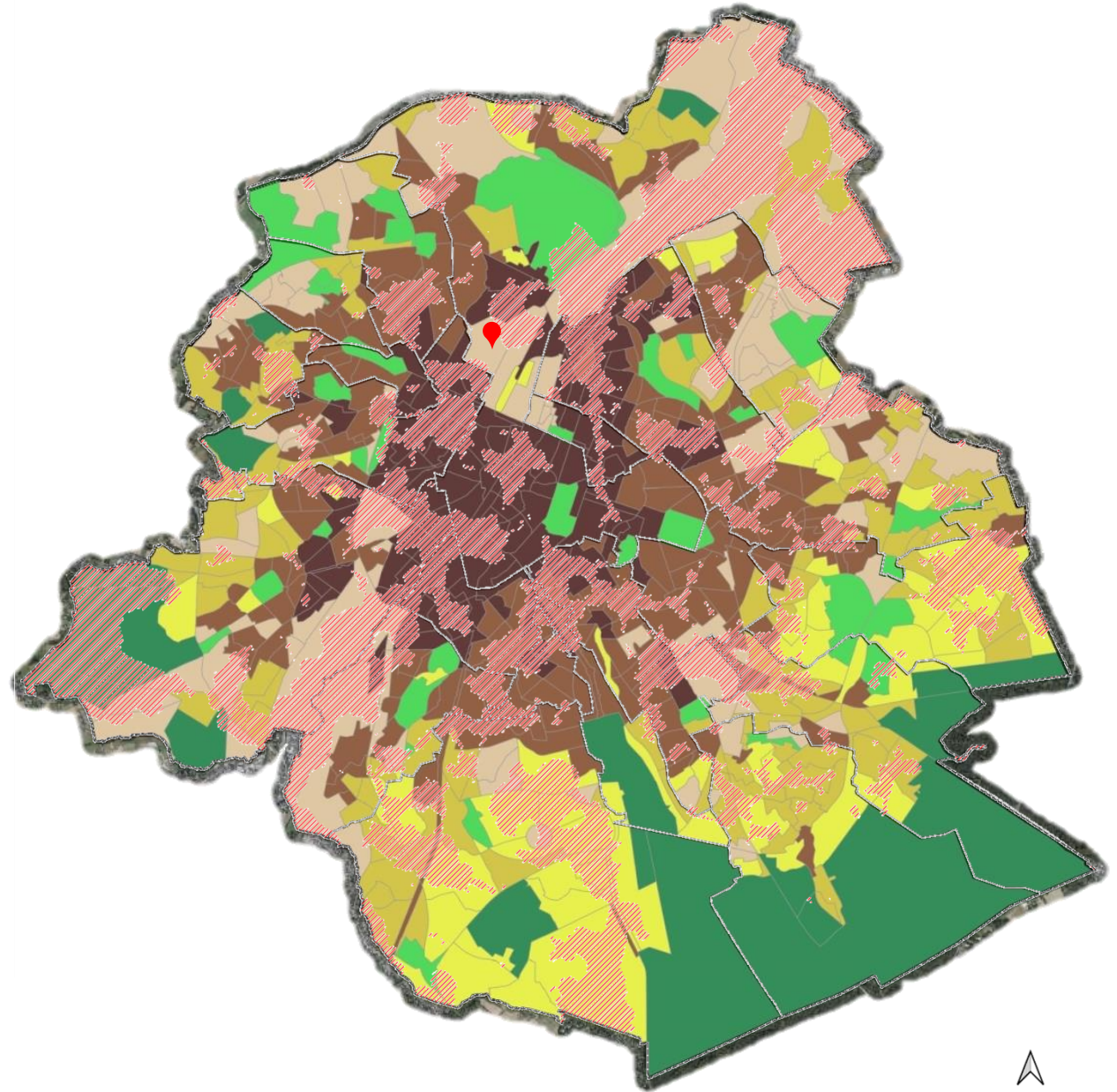
Heat island effect

Air quality

Flood risk

Urban typology

Lack of green spaces



Heat island effect

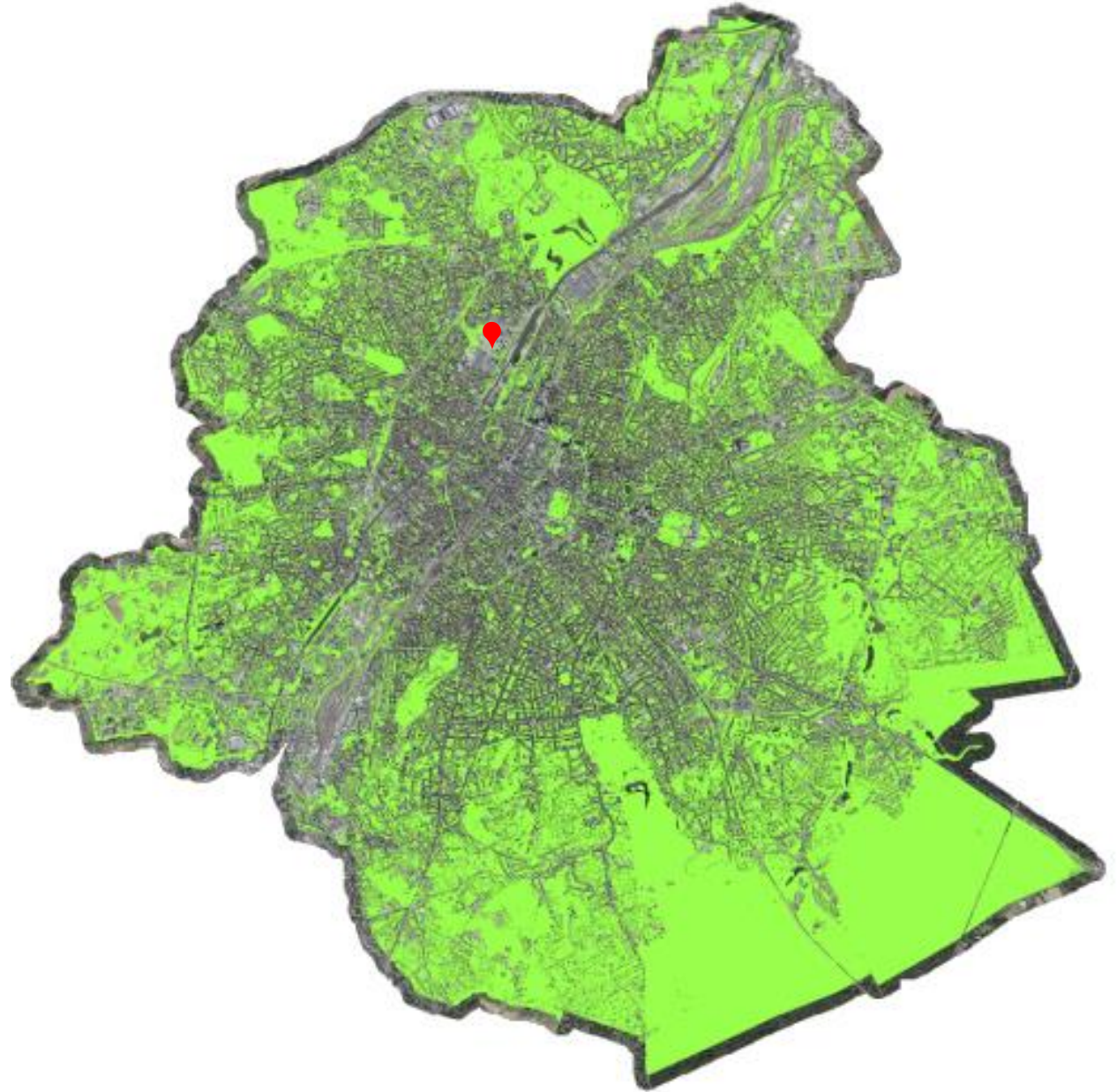
Air quality

Flood risk

Urban typology

Lack of green spaces

Vegetation / Tree cover



Heat island effect

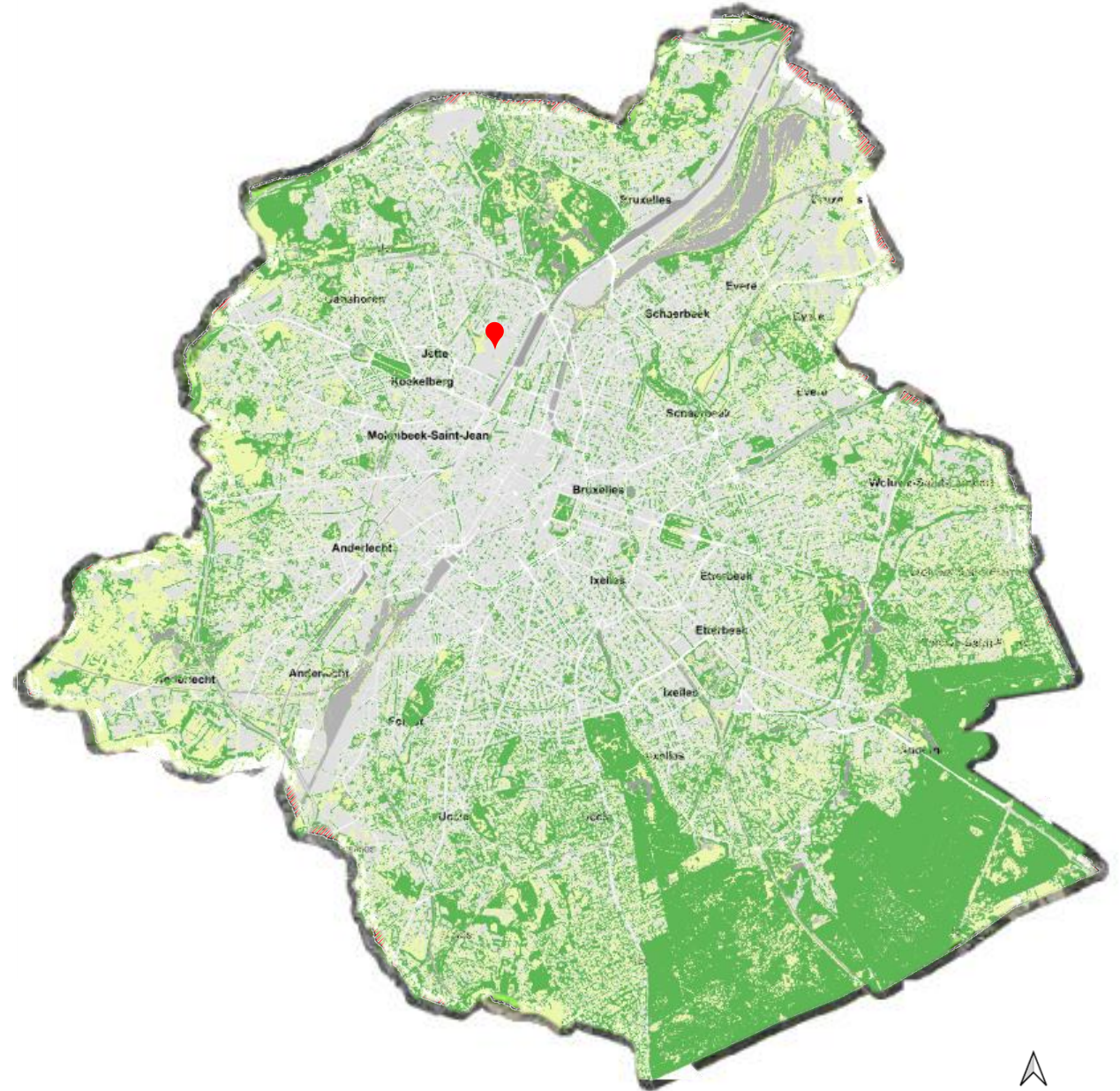
Air quality

Flood risk

Urban typology

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Vegetation / Tree cover



Heat island effect

Air quality

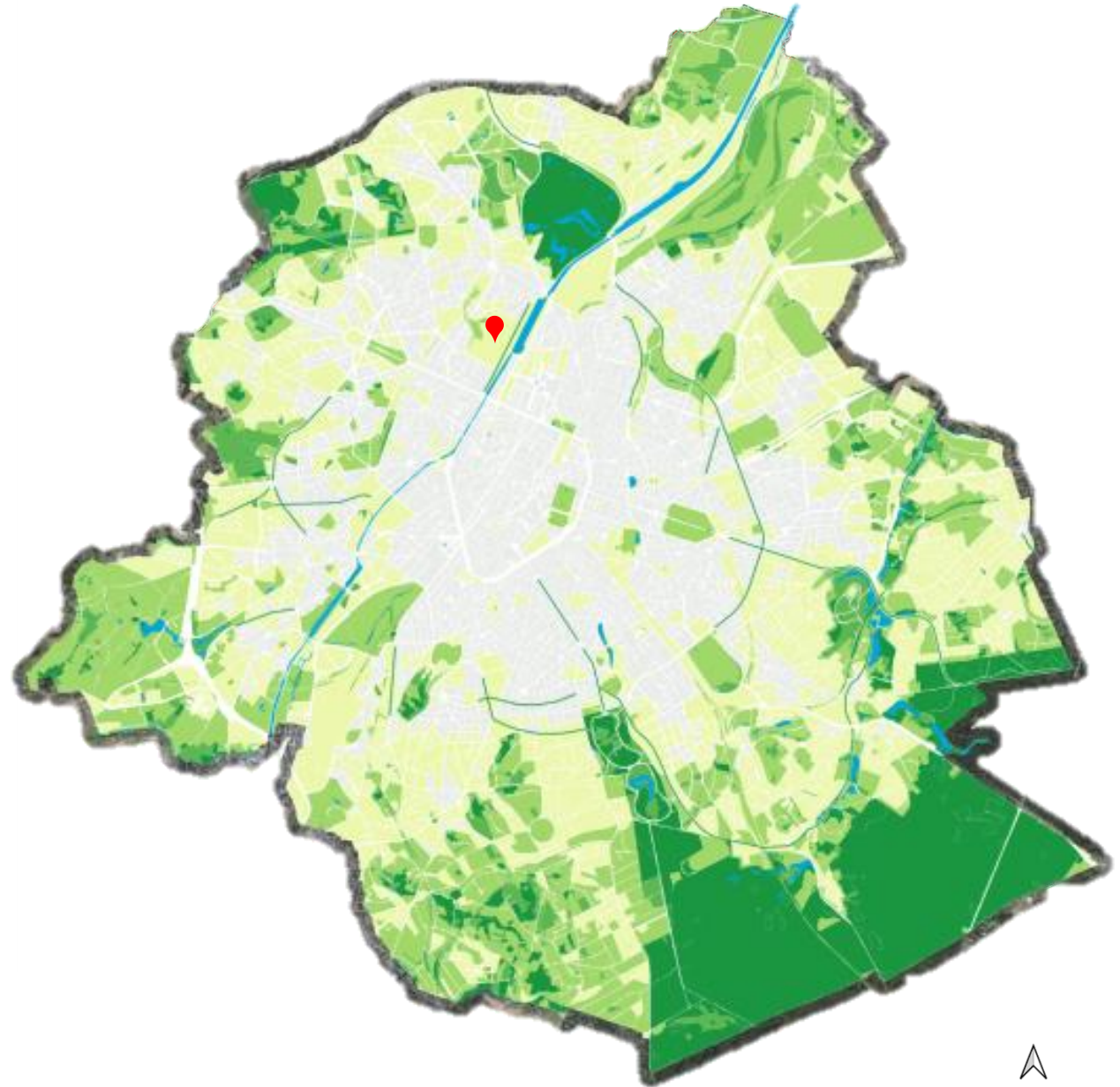
Flood risk

Urban typology

Lack of green spaces

Vegetation / Tree cover

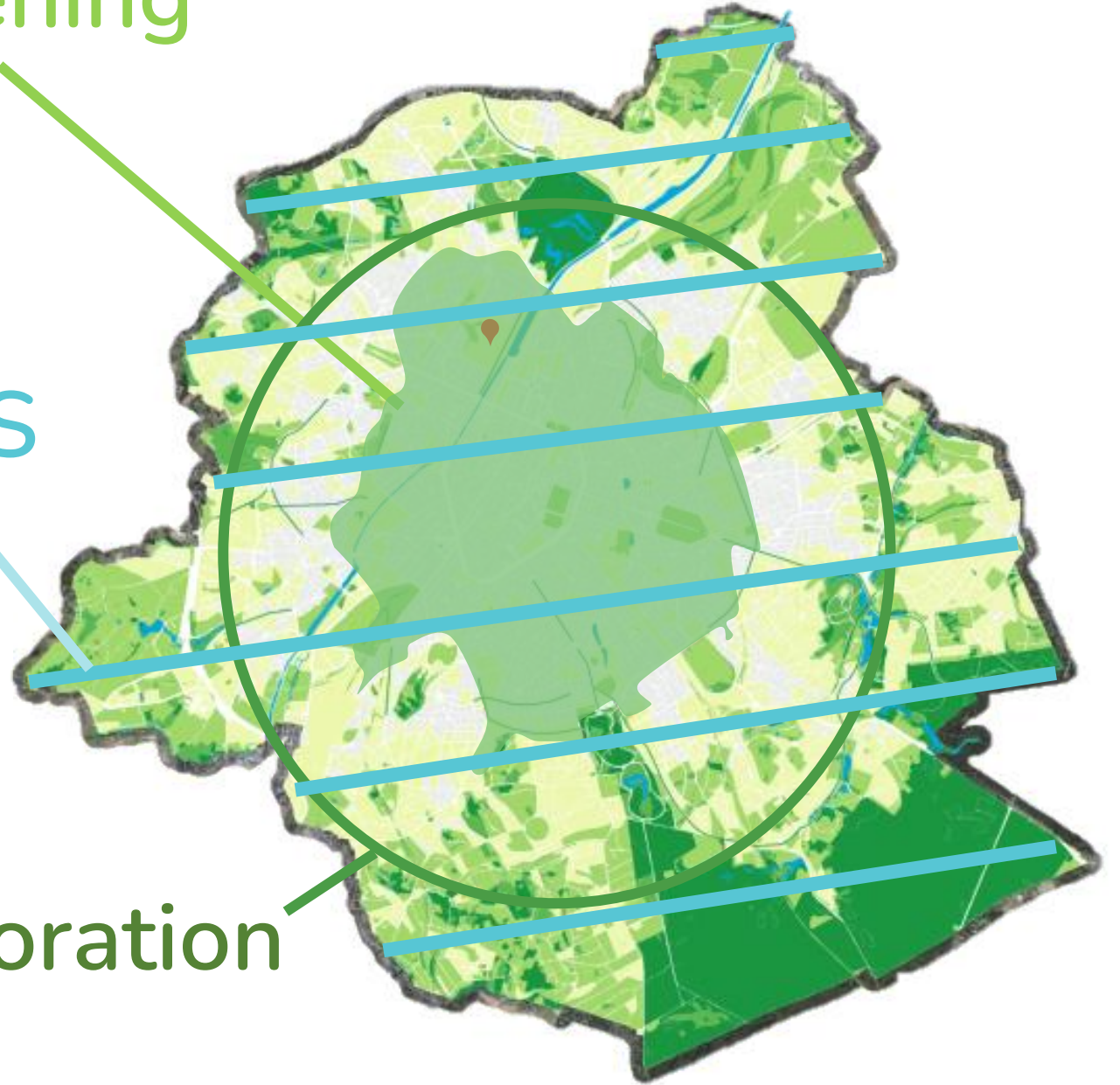
Biological quality



Greening

SuDS

Reconnection – Restoration



Green network

Ecological
Recreational



4 landscapes of the « Nature-City »

Countryside City

Rural influence

Biodiversity of open and hedged farmland
Butterflies - Rabbits, ferrets - Starlings, partridges...



Dense City

Urban influence

Biodiversity associated with buildings
House sparrow - Swift - Swallows - Falcon...



Water City

Biodiversity of (semi-)aquatic environments
Amphibians - Dragonflies - Yellow iris - Water birds,
warblers, etc.

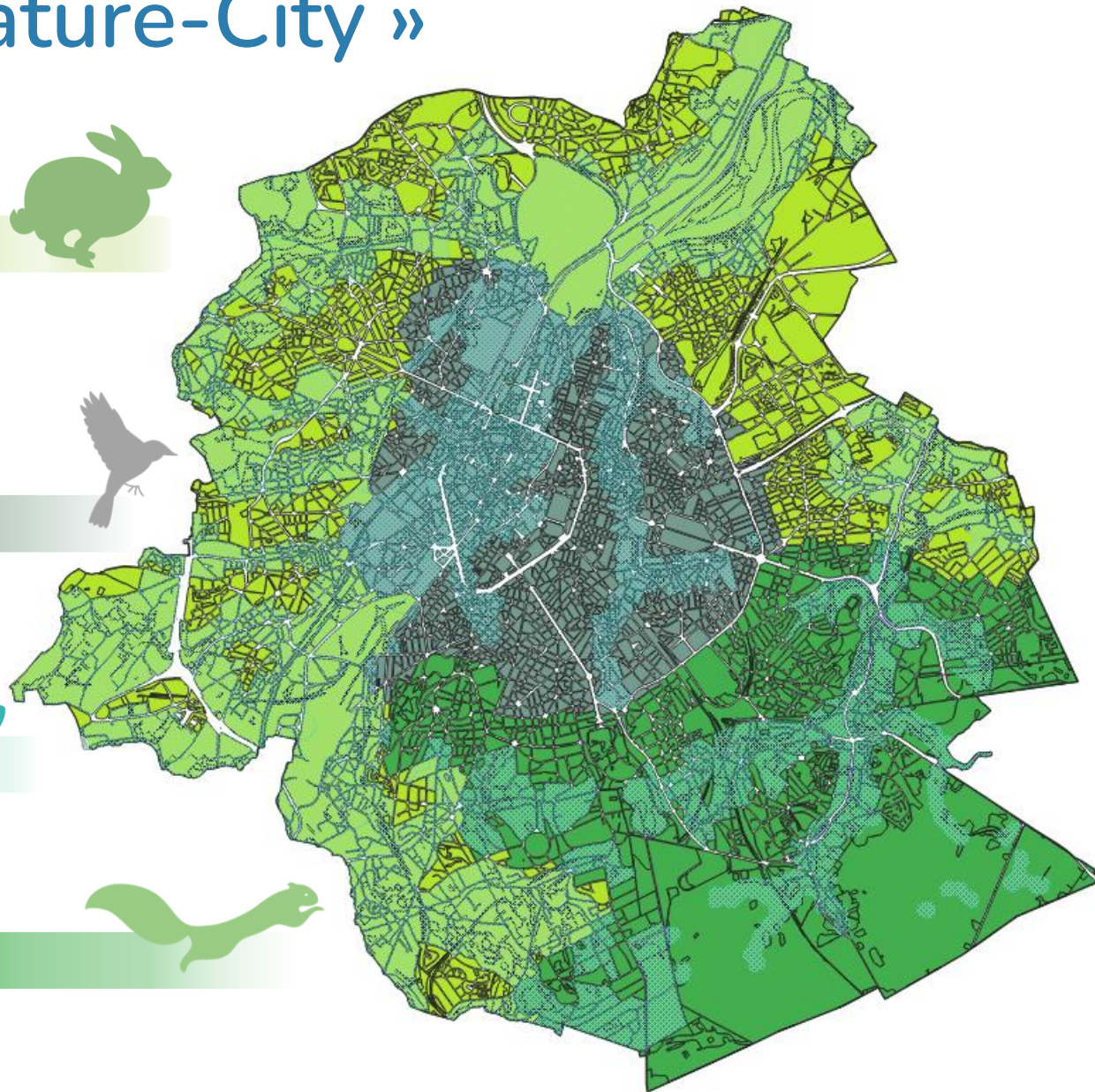
Wetland influence



Forest City

Influence forestière

Biodiversity of woods & forest edges
Squirrels – Stag beetles - Goshawks - Woodpeckers,
nuthatches...





Countryside City



Forest City



Water City



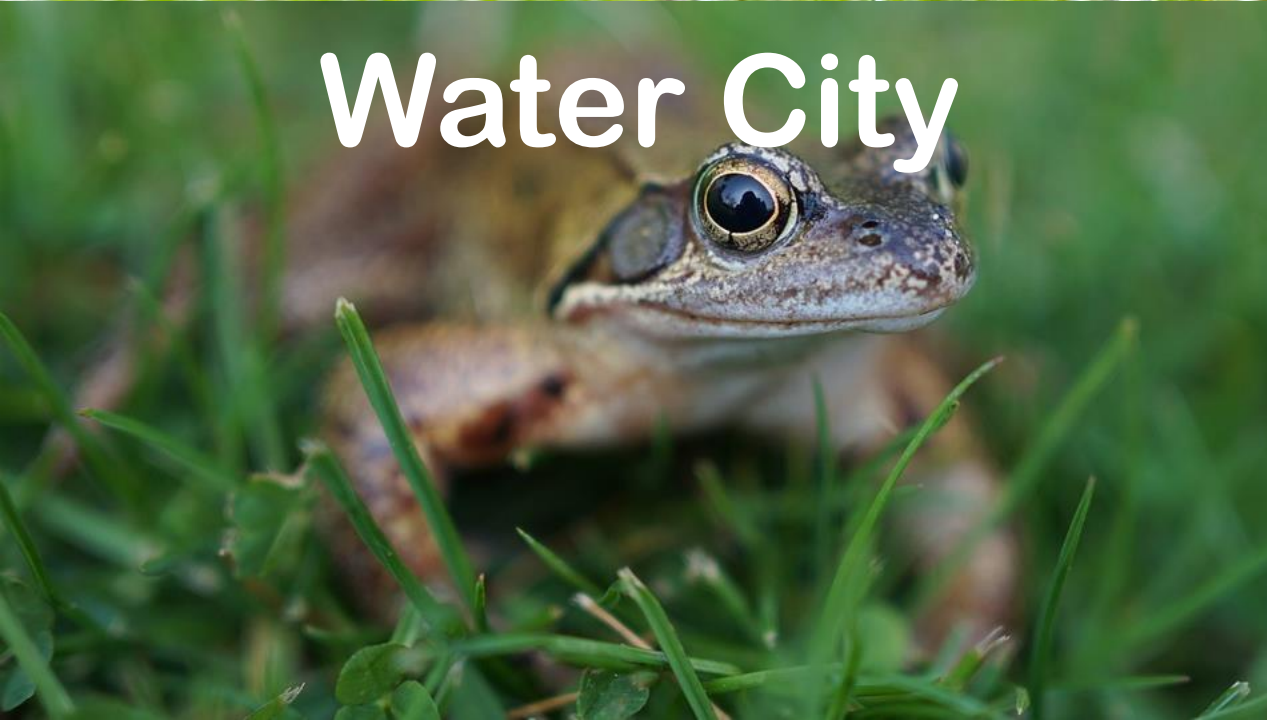
Dense City



Countryside City



Forest City



Water City



Dense City



Conservation



↗diversity in biotopes → ↗diversity of species



47 

Species of mammals, incl.

20 
Species of bats

103 

Species of nesting birds

206 
Species of wild bees

800 

Species of plants

8 

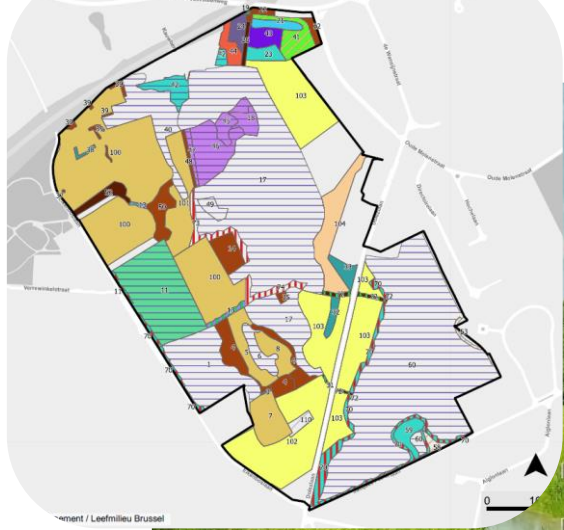
Species of indigenous
amphibians

14 % 

of the territory is a Natura 2000
site

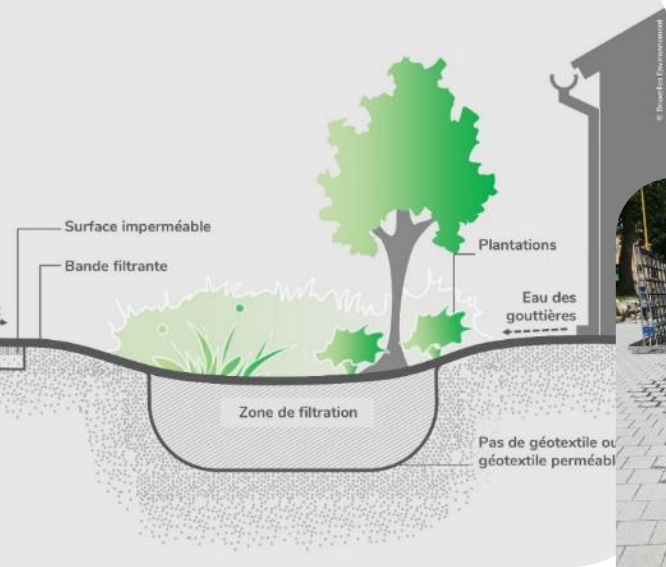
1665 ha 

Covered by forests



Reconnection Restoration





Urban greening





Ecological management



Ensemble, pour plus de nature en Région bruxelloise !

Favoriser la biodiversité, accueillir les oiseaux, soigner les arbres, végétaliser la ville, gérer les eaux de pluie, préserver des sols vivants, s'adapter au changement climatique...

Découvrez comment agir au quotidien pour déployer la Ville-Nature !

Voir toutes les fiches actions



www.renature.brussels New website providing guidance on ecological management, creating biotopes, selecting appropriate plants, and taking actions to support wild animals.

À ne pas manquer

10 actions pour aider la faune sauvage

Vous souhaitez redonner vie à vos es



Faites partie du Bottin !

Professionnels, vous souhaitez vous engager pour plus de nature à Bruxelles ?























Challenges?

- >22 institutions (19 municipalities + BE + BM +...)
 - Different departments in those institutions (public works, green spaces, environment, urban planning)
 - Different views, objectives, practices, methods, tools...
 - Lack of common databases (particularly for trees)
- Fairly widespread lack of skills and expertise
 - Hiring of "gardeners" with little or no training, "on-the-job" training
 - Social integration/reintegration job
 - Public works/road works oriented

Challenges?

- Trees are subject to urban planning regulations in the same way as buildings and street furniture
 - Little/no consideration given to biological/ecosystemic character
 - Permit-by-permit approach (no urban forestry approach)
 - 20 different authorities
- Heritage regulations more stringent than nature-related aspects
 - Several blockages and delays in greening projects, changing/diversifying tree species, choosing more sustainable materials, more extensive management practices, renaturation process, etc.



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