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STRATEGIC SUSTAINABILITY PLAN

Create quality living

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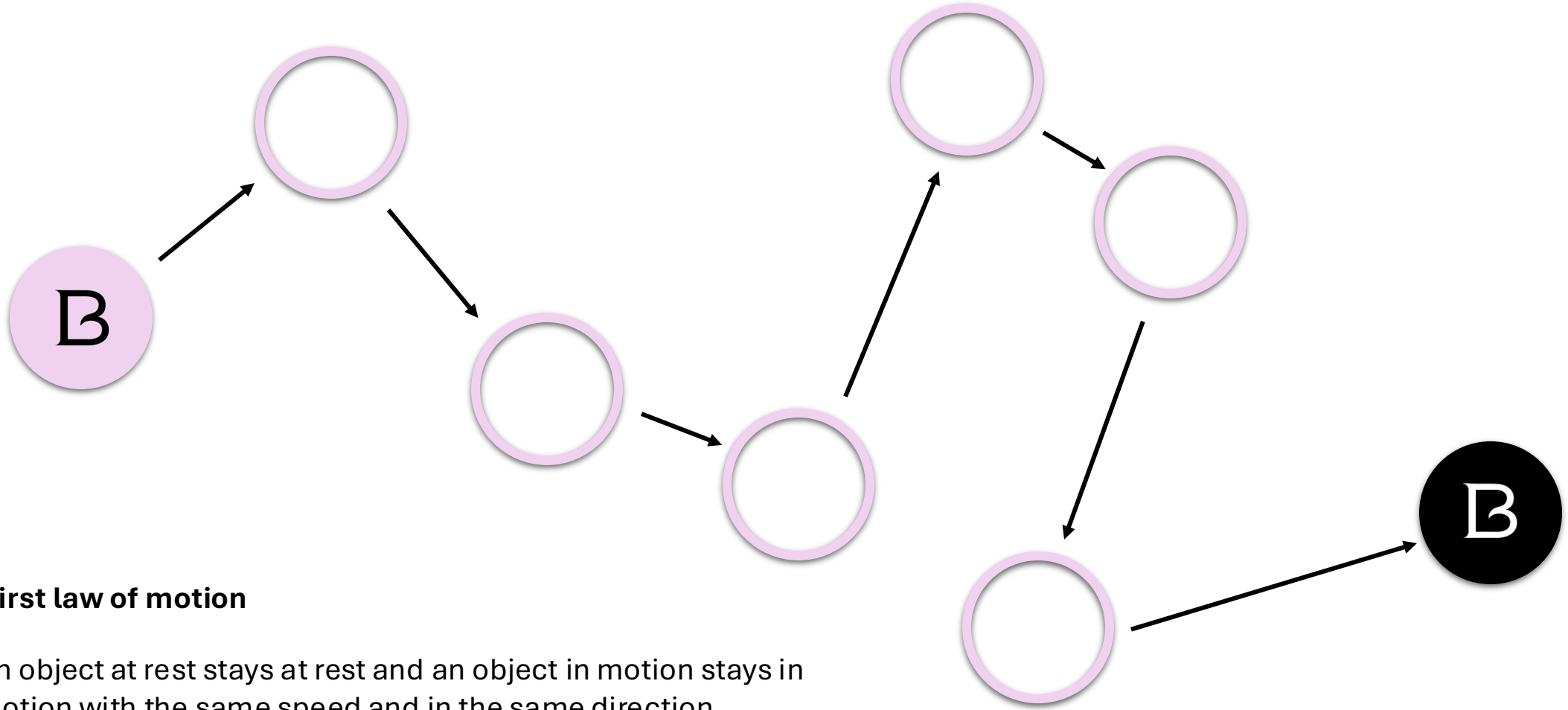
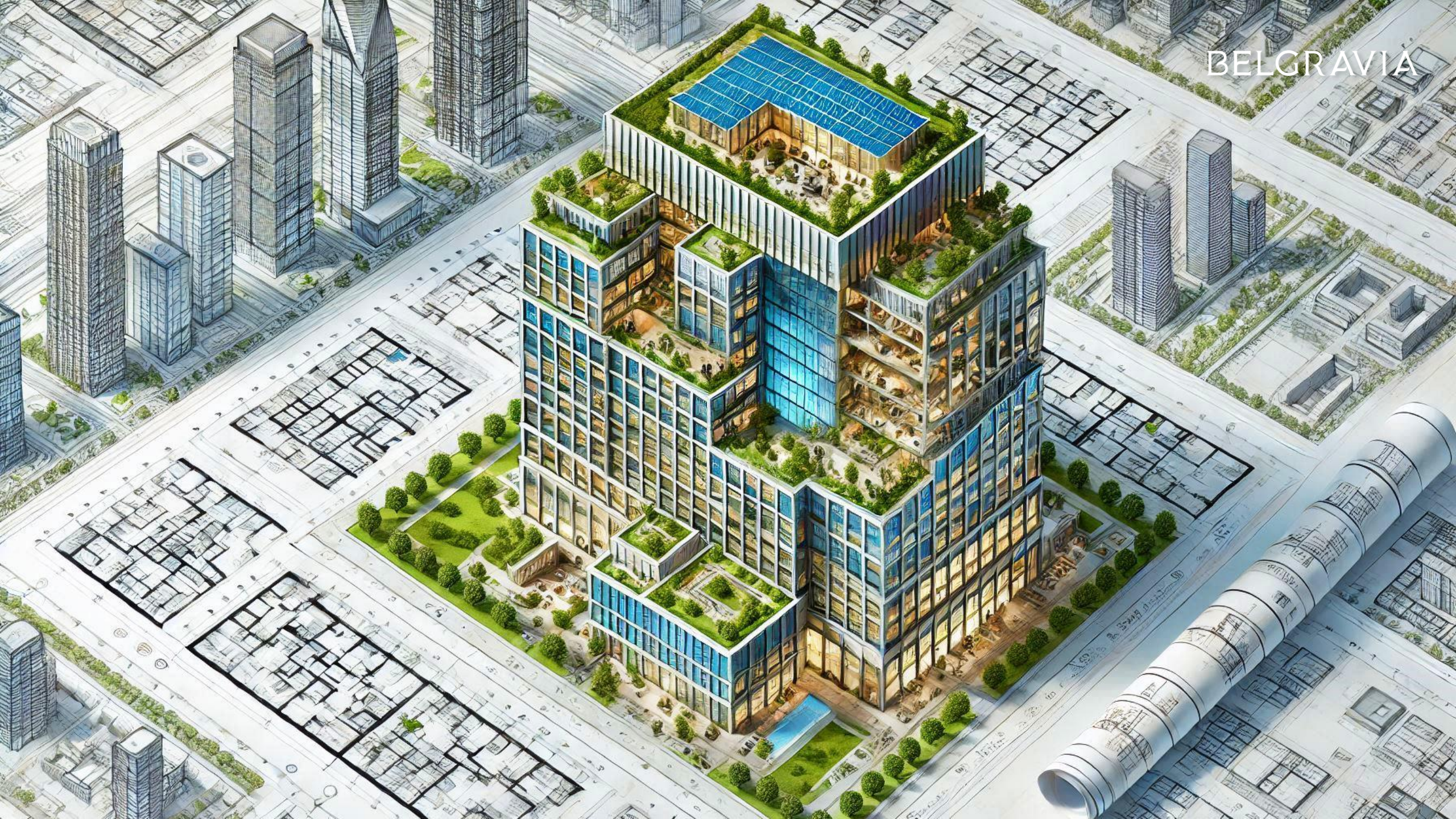


First law of motion

An object at rest stays at rest and an object in motion stays in motion with the same speed and in the same direction unless acted upon by an external force.

Isaac Newton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Project approach

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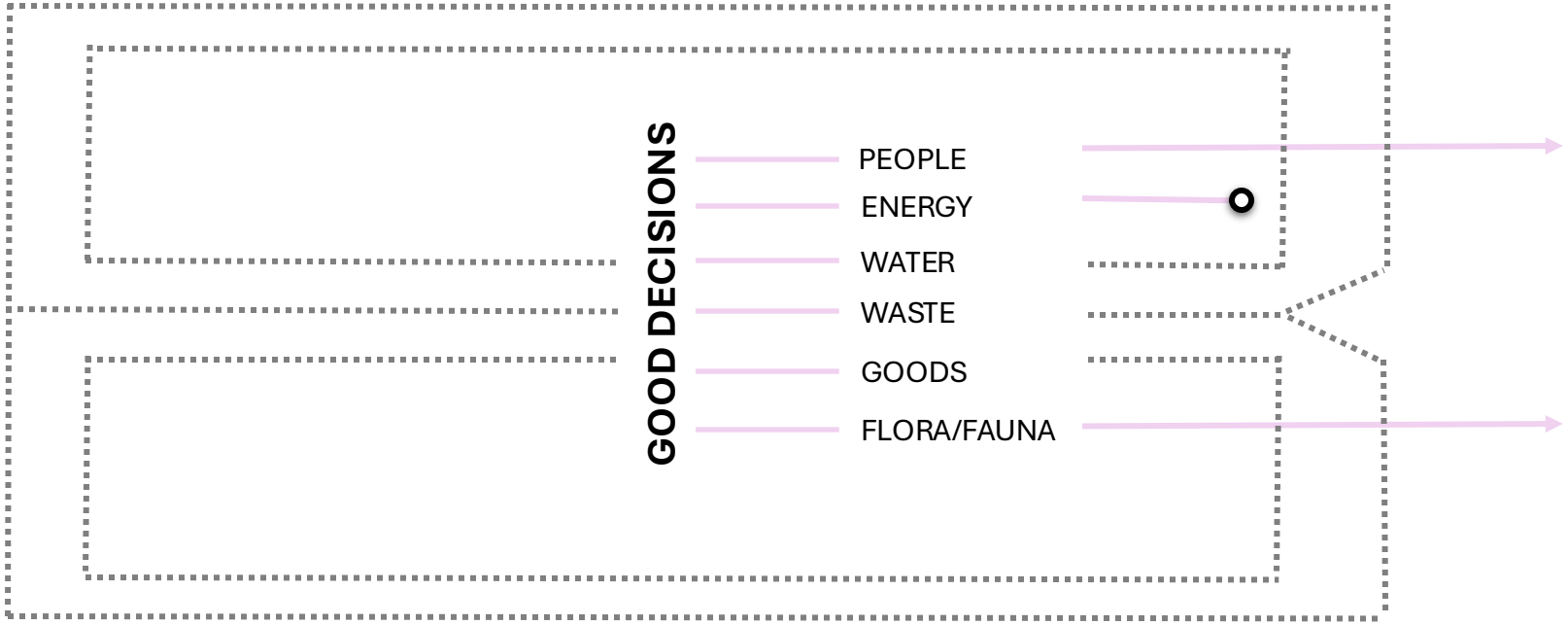
Thing move from place to place.

Our decision orchestrate the world…

…into sustainable systems.



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Sustainable environment by employing practices and solutions

Innovative

Convention challange

Holistic

Performance maximization

Integrated

Prioritized connections

Marketable

Complete occupation

Achieving the vision

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System	Sources	Uses	Strategies	Targets
PEOPLE				
ENERGY				
WATER				
WASTE				
GOODS				
FLORA/ FAUNA				

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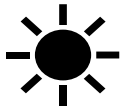
Energy

Sources

Nuclear

Natural gas


Solar PV

Wind

Biomass

Uses

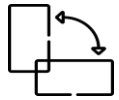
HVAC

Lighting

Appliances

Strategies

Efficient technologies


Building orientation

Targets

Maximising alternative energy use

Reducing the amount of non-renewable energy used

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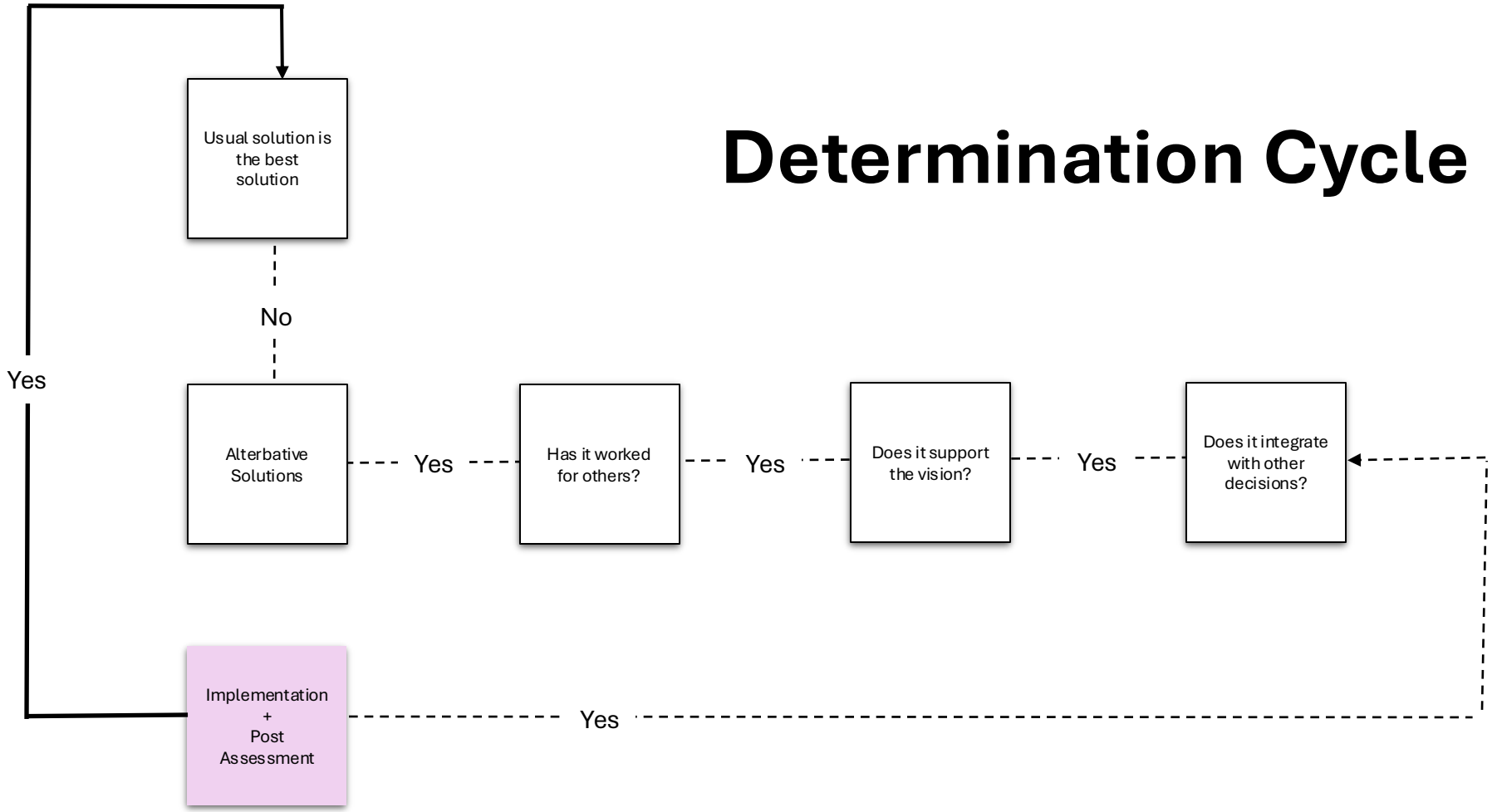
Determination Cycle



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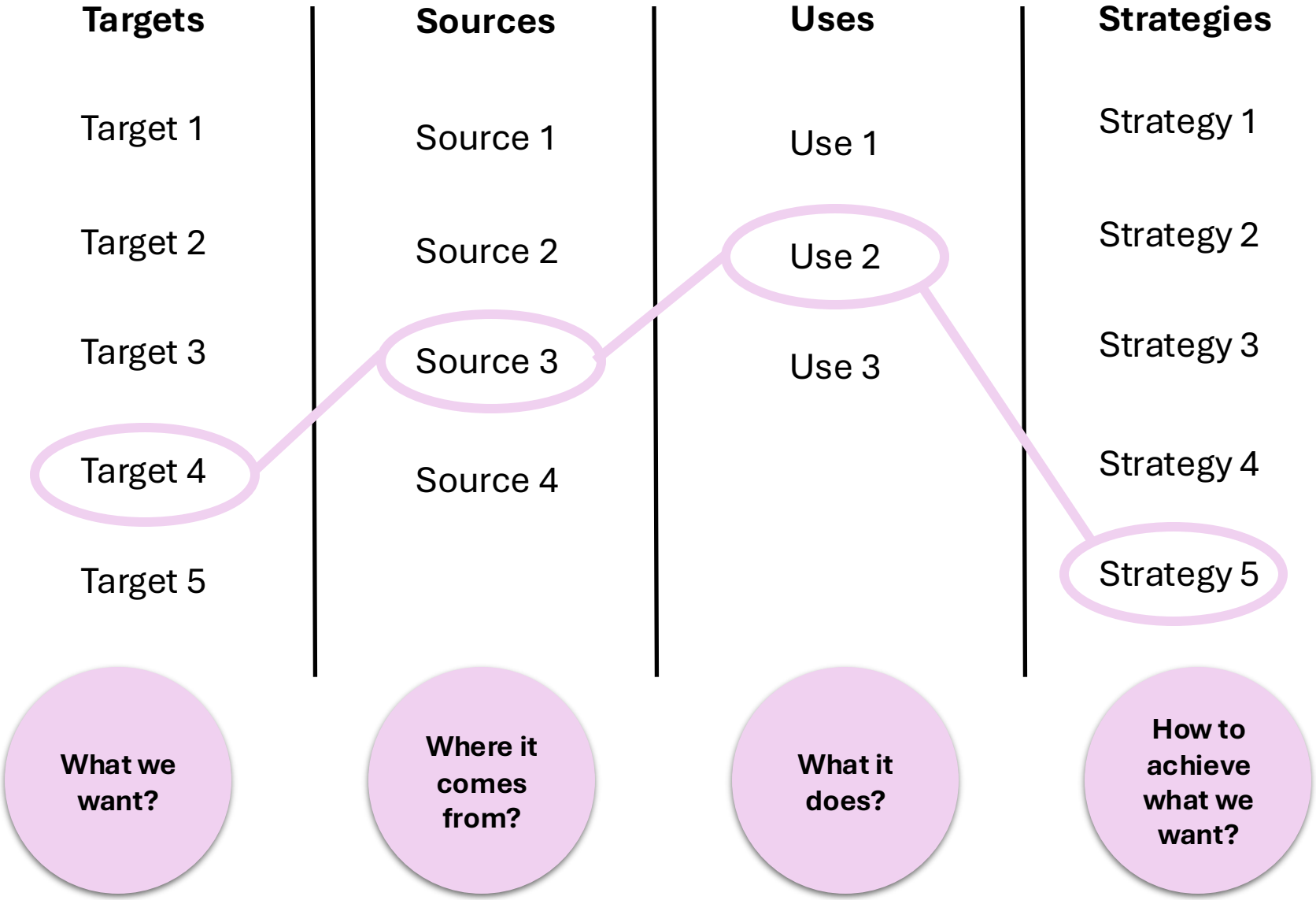
Targets
Target 1
Target 2
Target 3
Target 4
Target 5
Sources
Source 1
Source 2
Source 3
Source 4
Uses
Use 1
Use 2
Use 3
Strategies
Strategy 1
Strategy 2
Strategy 3
Strategy 4
Strategy 5
What we want?
Where it comes from?
What it does?
How to achieve what we want?

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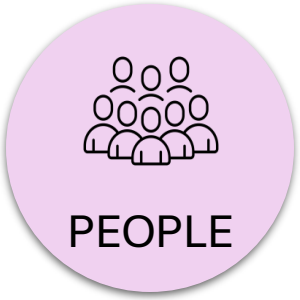

Targets

Sociable communities
Vibrant, active communities
Happy people
Healthy environment
Productive cities

Sources

Streets
Parks + public open spaces
Gardens
Yards
Porches
Houses
Retail + restaurants
Offices + Job Sites

Uses

Walking
Biking
Blading
Laughing
Talking
Playing
Meeting
Sleeping
Eating
Loving
Jogging
Reading
Fishing

Strategies

Parks with purpose
Complete + active streets
Very private outdoor spaces
Open play + relaxation space
Networks of sidewalks + pathways
Interaction with nature
Transition between public + private space
Efficient homes
Social space in homes
Nooks

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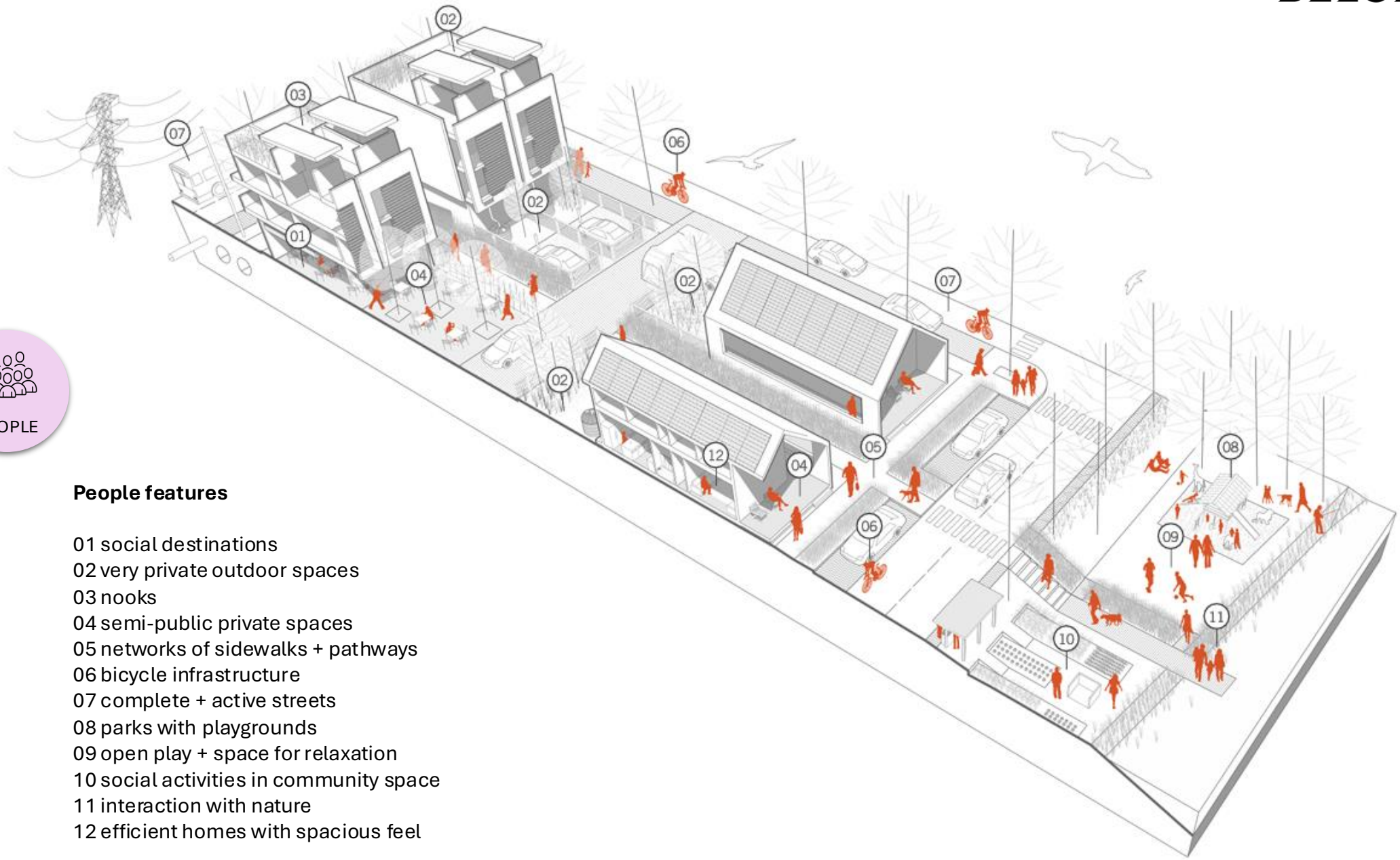

PEOPLE

People features

01 social destinations
02 very private outdoor spaces
03 nooks
04 semi-public private spaces
05 networks of sidewalks + pathways
06 bicycle infrastructure
07 complete + active streets
08 parks with playgrounds
09 open play + space for relaxation
10 social activities in community space
11 interaction with nature
12 efficient homes with spacious feel

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Targets

Maximize use of renewable energy
Maximize use of clean energy

Sources

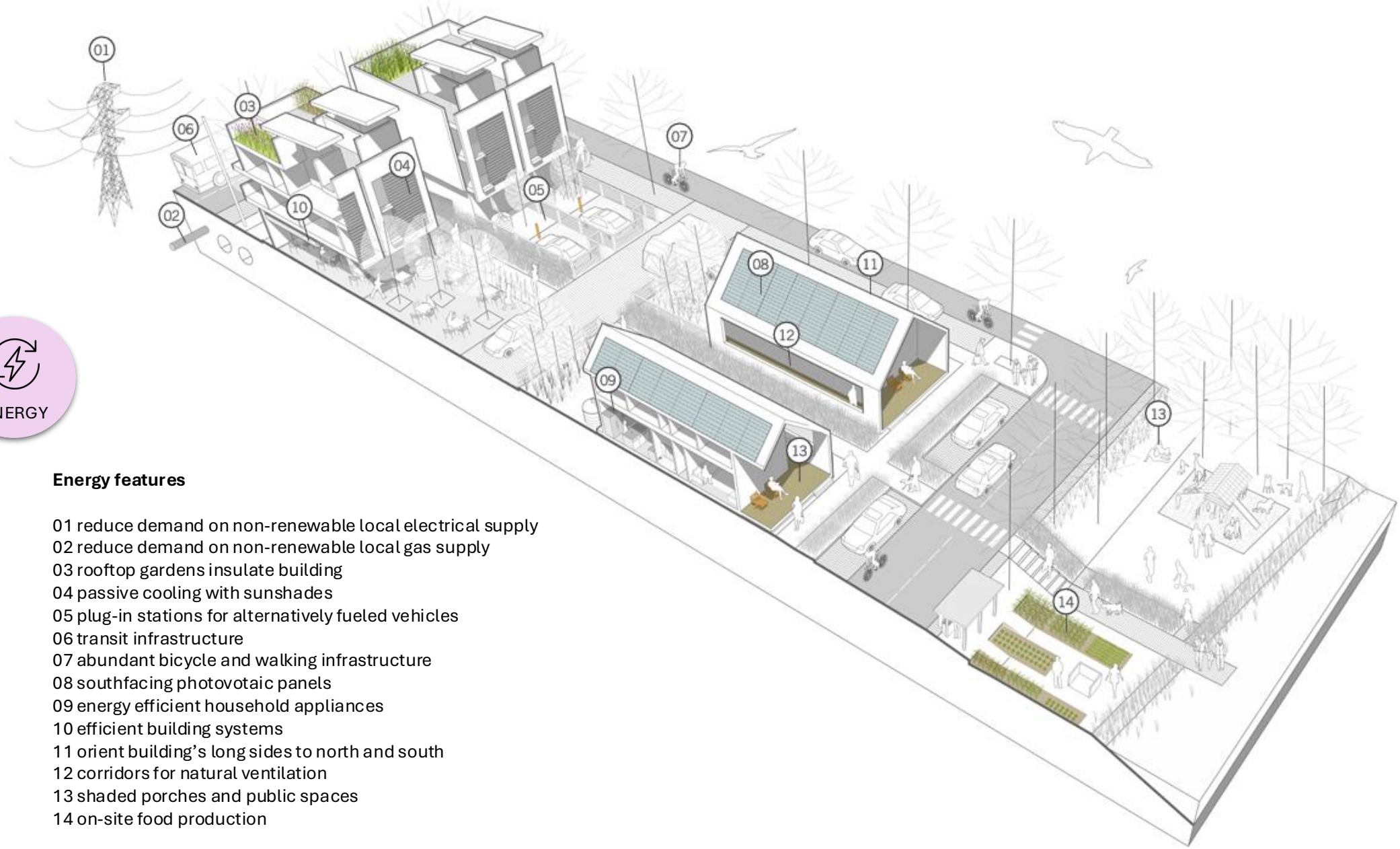
Coal (Non-renewable)
Natural gasl (Non-renewable)
Petroleum l (Non-renewable)
Solar (Renewable)
Wind (Renewable)
Geothermal (Renewable)
Biomass (Renewable)
Food (Non-renewable + Renewable)

Uses

Building systems
Site infrastructure
Transportation
People

Strategies

Passive heating + cooling
On-site power generation
Alternative fuel vehicles
Mixed-model transportation
Building solar orientation
Efficient building systems + appliances
On-site food production



ENERGY

Energy features

01 reduce demand on non-renewable local electrical supply
02 reduce demand on non-renewable local gas supply
03 rooftop gardens insulate building
04 passive cooling with sunshades
05 plug-in stations for alternatively fueled vehicles
06 transit infrastructure
07 abundant bicycle and walking infrastructure
08 southfacing photovotaic panels
09 energy efficient household appliances
10 efficient building systems
11 orient building's long sides to north and south
12 corridors for natural ventilation
13 shaded porches and public spaces
14 on-site food production

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Targets

Maximize use of non-potable water
Release only clear water
Recharge groundwater

Sources

Municipal water (potable)
Groundwater
Stormwater (non-potable)
Greywater (non-potable)
Blackwater (non-potable)

Uses

People (drinking, household, recreation)
Irrigation
Building systems
Manufacturing
Agriculture

Strategies

Clean water on site
Elliminate waterborne pollutants
Reuse greywater
Efficient fixtures
Infiltrate stormwater on site
Slow water's movement across site
Only non-potable water for irrigation
Monitor flow and usage

WATER

Water features

01 reduce demand on municipal potable water supply
02 rain garden in streetscape
03 vegetated roofs slow the movement of stormwater
04 rainwater collection for irrigation and building systems
05 micro-grading directs stormwater movement
06 water monitoring systems
07 pervious paving or soft paving for drives and alleys
08 bio-swales clean and infiltrate stormwater
09 greywater irrigation
10 low flow water fixtures
11 pervious paving or gravel parking stalls
12 collect and clean street run-off
13 reduce impervious paving width of street to minimum
14 water is a public space and recreational amenity

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Targets

Maximize use of non-biodegradables
Use biodegradables as food + fuel
Emit clean air

Sources

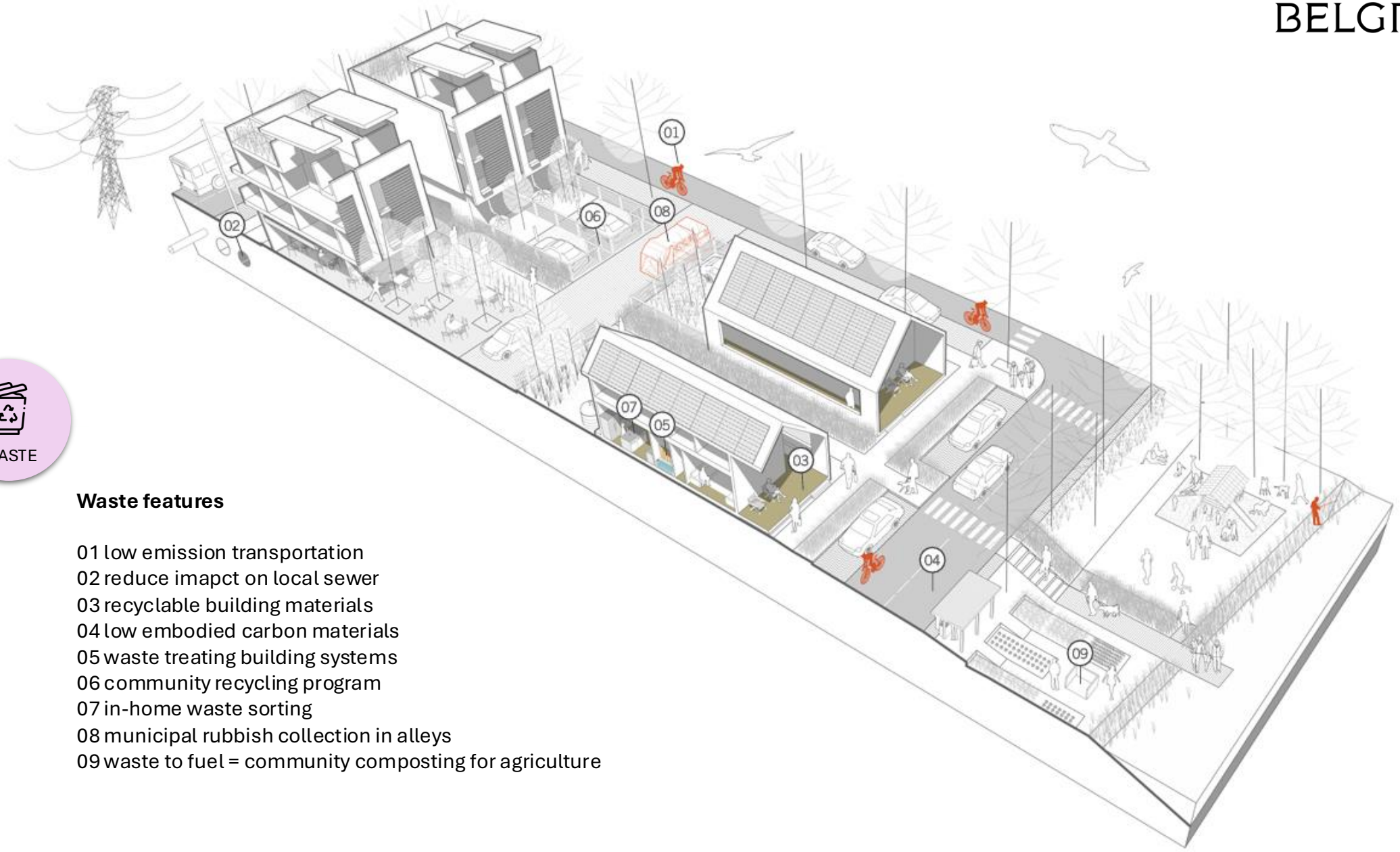
Households + building occupancies
Building systems
Food preparation + disposals
Landscape
Transportation
Building and site material production

Uses

Recycling on or off site
Composting biodegradables
Reuse materials for construction

Strategies

Low emission vehicles
Divert waste for off-site reuse
Waste treating building systems
Organic fertilizers
Composted soils
Waste management program



WASTE

Waste features

01 low emission transportation
02 reduce imapct on local sewer
03 recyclable building materials
04 low embodied carbon materials
05 waste treating building systems
06 community recycling program
07 in-home waste sorting
08 municipal rubbish collection in alleys
09 waste to fuel = community composting for agriculture

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Targets

Buy goods with low impact
Maximize local economic self-sufficiency

Sources

Manufactured goods
Agricultural goods

Uses

People (food)
Consumer goods + appliances
Building + site materials + systems

Strategies

Produce consumer goods on site
Buy goods produced + grown locally
Use recycled goods

GOODS

Goods features

01 commercial-retail uses within fabric of community
02 on-site or local food production
03 on-site sale + restaurant supply of agricultural goods
04 locally sourced building materials
05 recycled + recyclable building materials
06 public art + local artists

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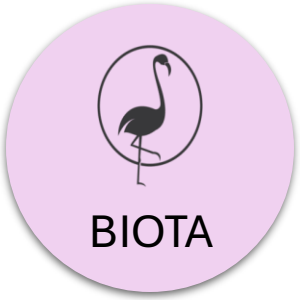


Targets

Maximize biodiversity
Build natural habitats or corridors
Maximum potential of on-site resources

Sources

Flora
Fauna

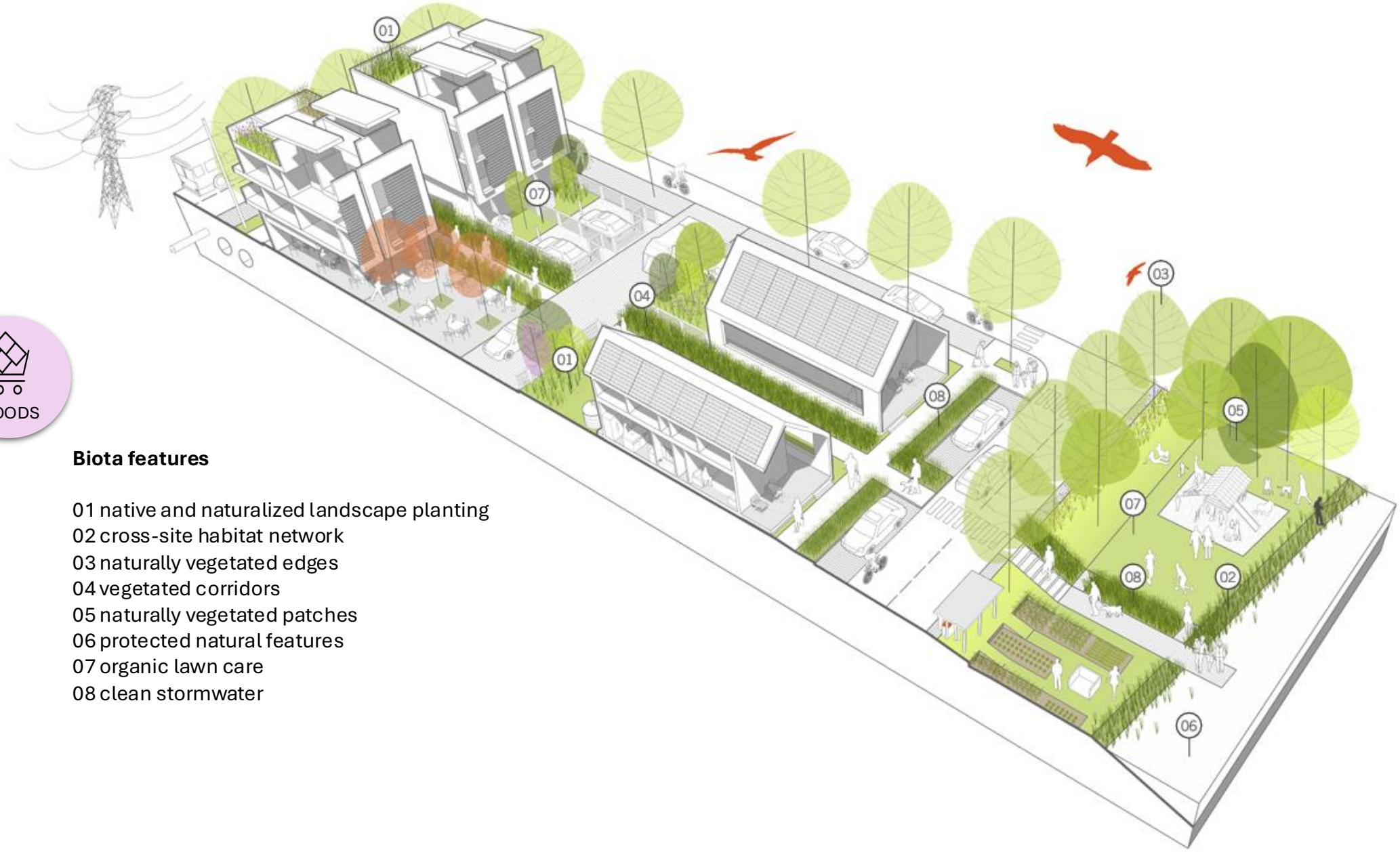
Uses

Patches
Edges
Corridors
Mosiacs

Strategies

Sizable naturally vegetated areas
Construct varying natural edges
Create vegetated corridors for movement
Make corridor networks across site
Native/naturalized landscape plants

GOODS



Biota features

01 native and naturalized landscape planting
02 cross-site habitat network
03 naturally vegetated edges
04 vegetated corridors
05 naturally vegetated patches
06 protected natural features
07 organic lawn care
08 clean stormwater