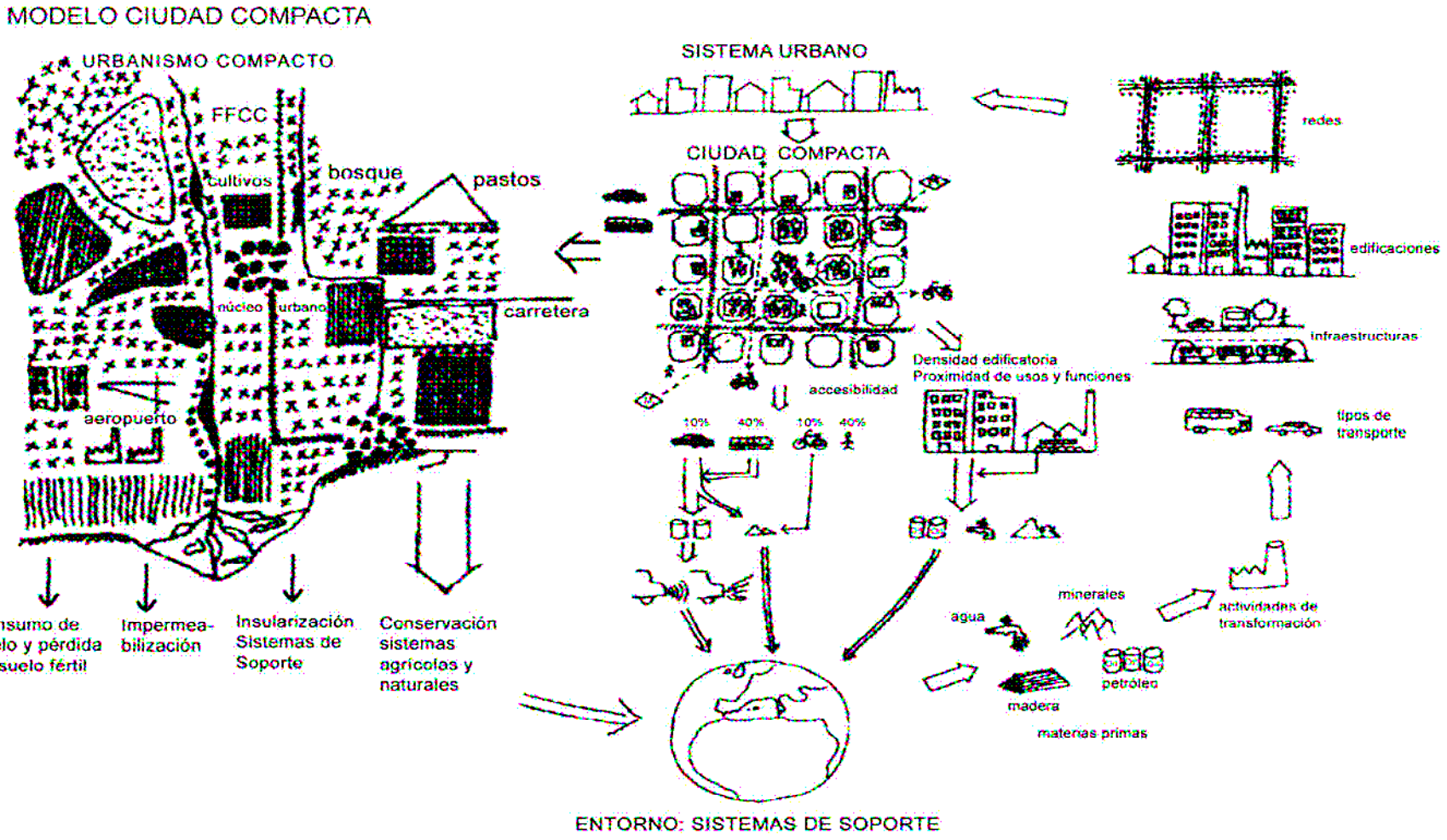
INDICATORS SYSTEM

LAP and LSG; Vitoria-Gasteiz

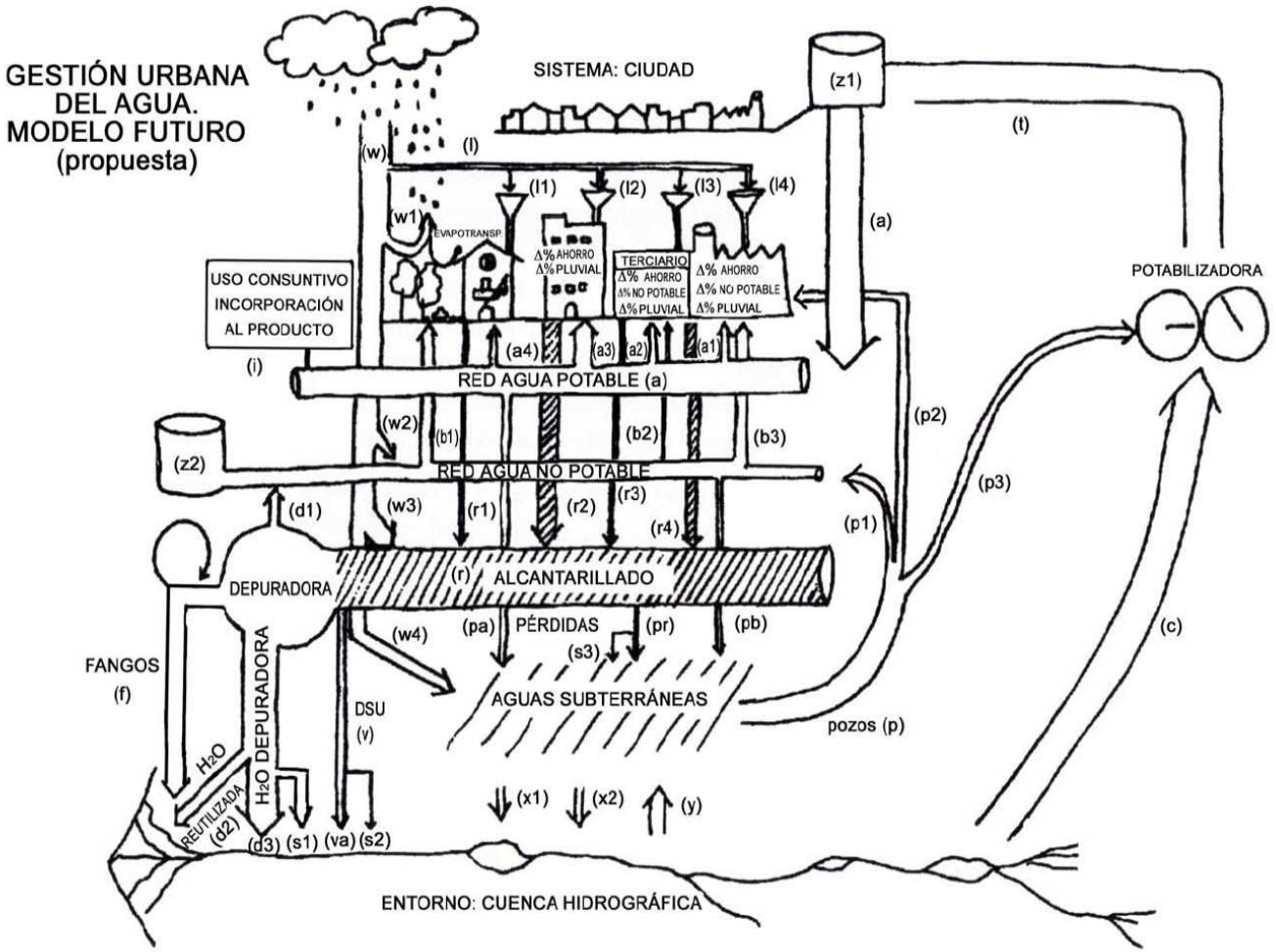
Departamentos Urbanismo – Planificación y Medio Ambiente

Ayuntamiento de Vitoria-Gasteiz
Vitoria-Gasteizko Udala

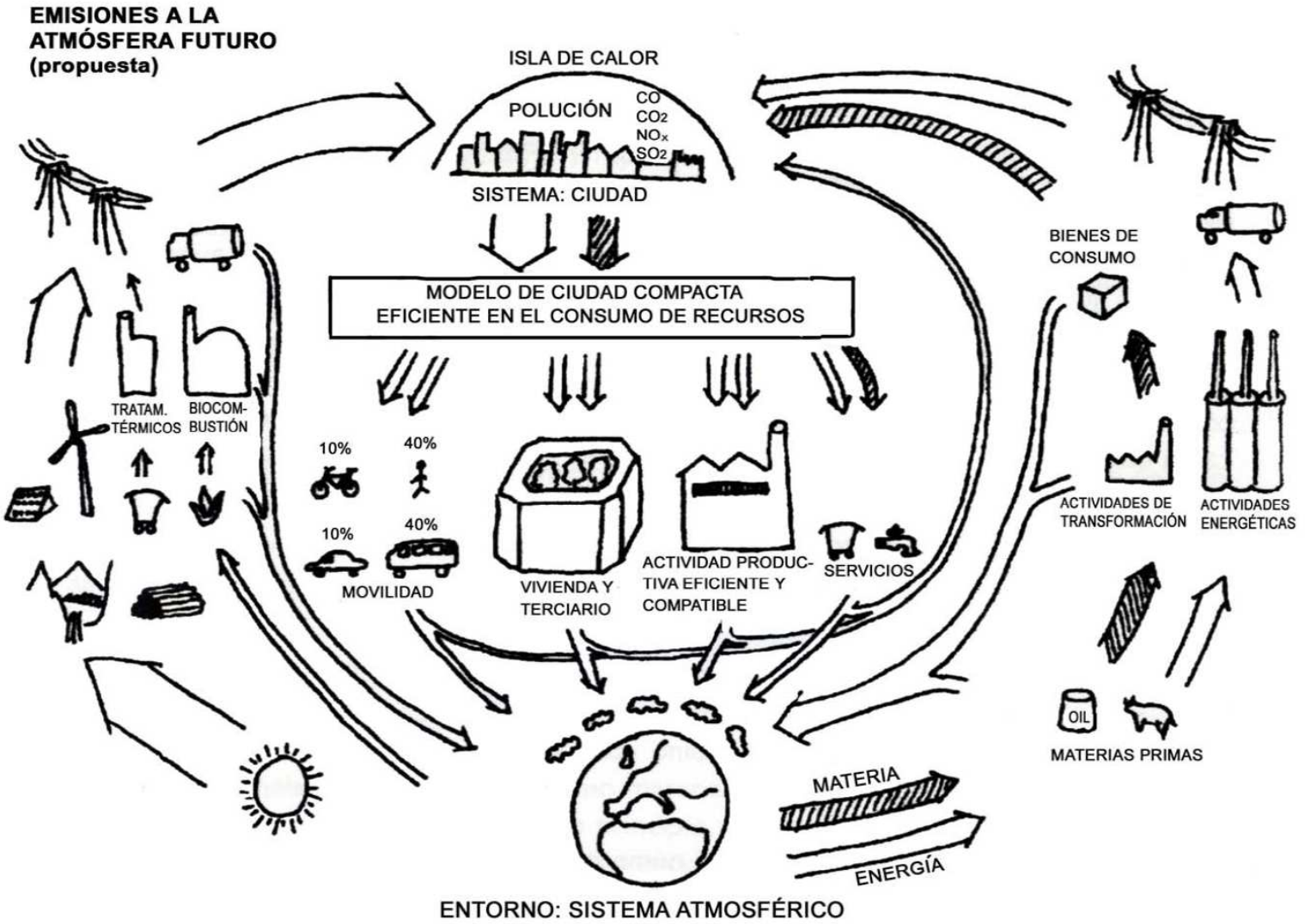
COMPACT CITY MODELS

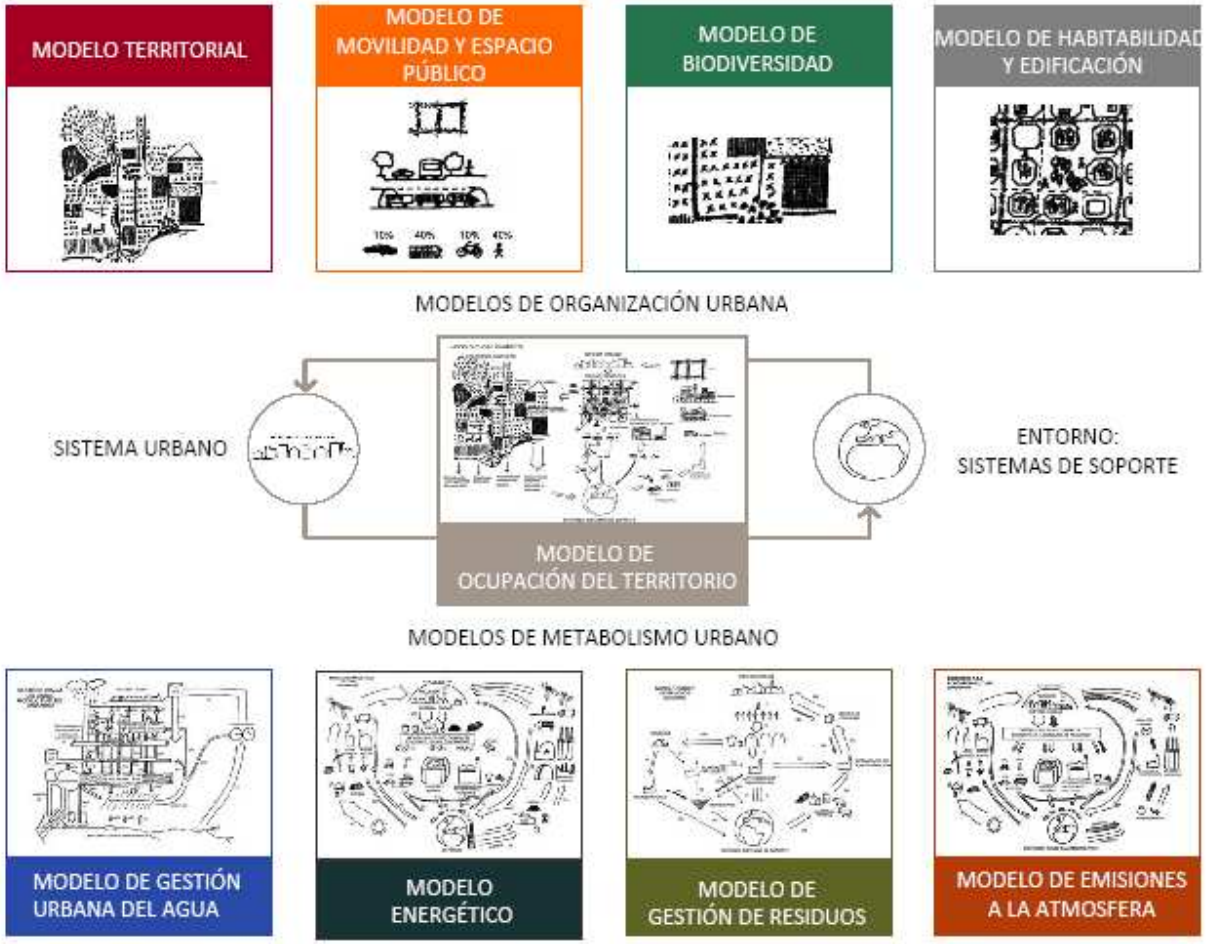


WATER CYCLE (SUGGESTED



EMISION
(SUGGES




MODELO TERRITORIAL
MODELO DE MOVILIDAD Y ESPACIO PÚBLICO
MODELO DE BIODIVERSIDAD
MODELO DE HABITABILIDAD Y EDIFICACIÓN
MODELOS DE ORGANIZACIÓN URBANA
SISTEMA URBANO
ENTORNO: SISTEMAS DE SOPORTE
MODELO DE OCUPACIÓN DEL TERRITORIO
MODELOS DE METABOLISMO URBANO
MODELO DE GESTIÓN URBANA DEL AGUA
MODELO ENERGÉTICO
MODELO DE GESTIÓN DE RESIDUOS
MODELO DE EMISIONES A LA ATMOSFERA

PROYECT

PART I: Sustainable city concept and stability in the city ecosystem.

PART II: Indicators system and adaptation of indicators to the sustainable city concept.

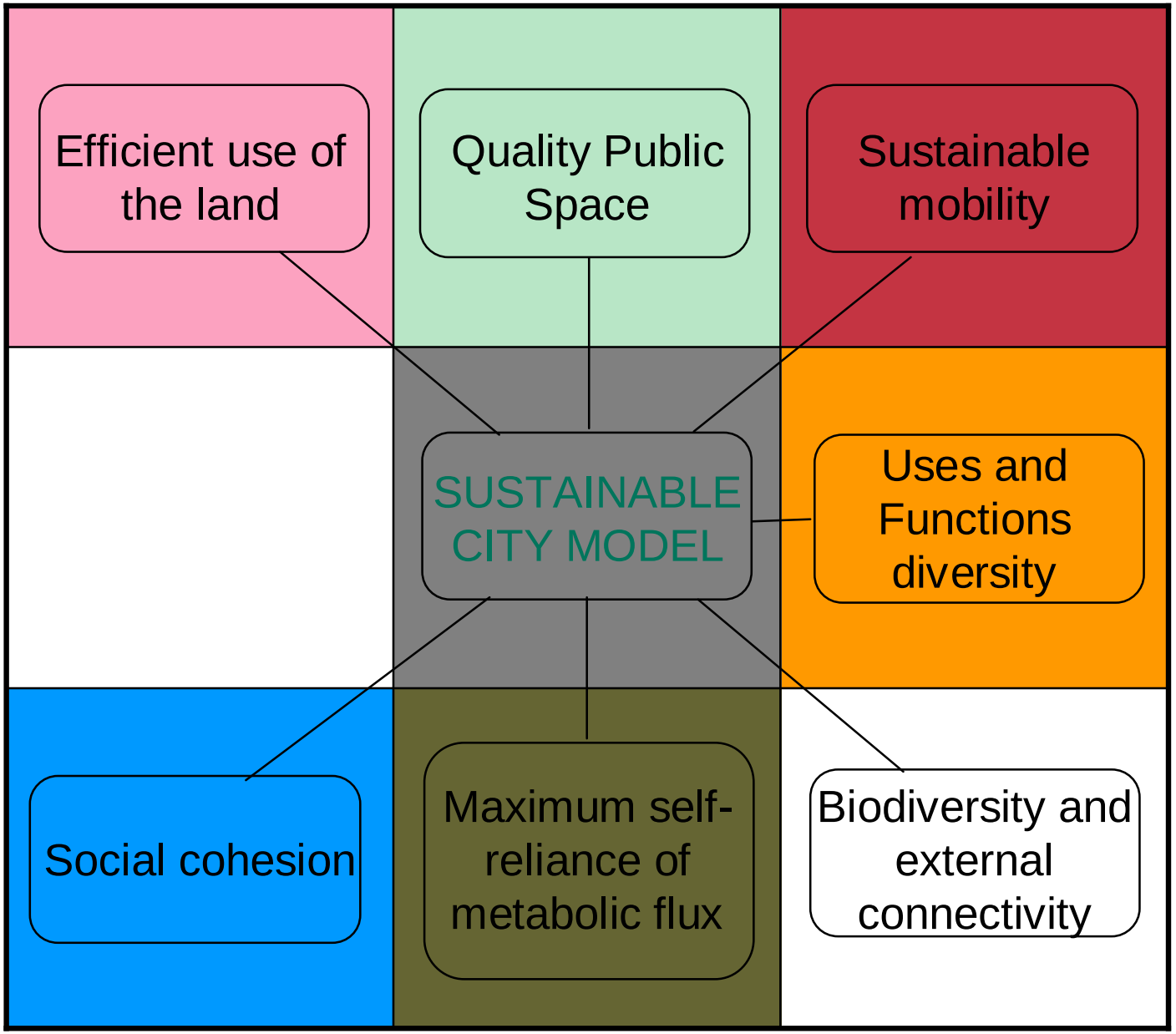
- Each Indicator pretend an specific aim, with basic guidelines for calculating it and comments concerning the results shown by the indicator.
- Indicators are evaluated for the current moment (2009) and for two future moments, 2.020 and 2.050.

CONCEPTUAL FRAMEWORK

- The Urban sustainability Indicators System is a tool to evaluate in quantity and quality the urbanization process in the city.
- The evaluation is made in an integral and sistemic way and with sustainability criterias.

Vitoria-Gasteiz

More Sustainable City Model: Intervention Fields



The classification of the 49 indicators chosen, is organized in eight different fields:

- A01 OCCUPIED LAND

  Efficient land use
- A02 PUBLIC SPACE AND HABITABILITY

  Quality Public Space
- A03 MOBILITY

  Sustainable mobility
- A04 URBAN COMPLEXITY

  Diversity of uses and functions
- A05 URBAN METABOLISM

  maximum self-reliance of metabolic flux
- A06 URBAN BIODIVERSITY

  Enhancing urban biodiversity
- A07 SOCIAL COHESION

  Increased social cohesion
- A08 SUSTAINABILITY GUIDE ROLE

  Efficiency of the urban system

A01 OCCUPIED LAND

Intensity of use	01 Housing density
	02 absolute compactness

A02 PUBLIC SPACE AND HABITABILITY

Planning	03 Corrected compactness
Quality of Public Spaces	04 Habitability index
	05 Air Quality
	06 Acoustic comfort
	07 Thermal comfot
	08 Pedestrian public road accesssibility
	09 Perception of the urban green space

A03 MOBILITY

Network configuration	10 Population displacements
	11 Proximity to alternative transport system (not the car)
Funcionalidad	12 Distribution of public road
Dotación de infraestructuras	13 Proximity to bicycle parking
	14 Proximity to bicycle loan service
	15 parking for the private vehicle out of the street
	16 Deficit parking for priveta vehicles
	17 Loading and unloading off road

A04 URBAN COMPLEXITY

Diversidad	18 Urban complexity
	19 Balance between residence and activity
	20 proximity activities
	21 Dense knowledge activities
Funcionalidad	22 Spatial and Functional continuity of the street corridor

A05 URBAN METABOLISM

Energy	23 Energy consumption
	24 Energy Self-Sufficiency
Water	25 Water Consumption
	26 Water Adequacy
Food	27 Food Self production
Waste and the cycle of materia	28 selective waste manegement
	29 Construction waste
	30 Collection systems' energy consume
	31 Provision of waste collection containers
	32 Proximity to collection point
	33 proximity to Clean Points
	34 Closing of organic materia cycle
Atmosphere	35 Emission of gases with greenhouse effect

A06 URBAN BIODIVERSITY

Structure	36 Soil permeability index
	37 Green area per capita
	38 Biodiversity of birds index in the city
	39 Proximity to green areas
Potential	40 Inex of functionality of parks and gardens
	41 Trees' biodiversity per area
	42 Connectivity of urban green corridors

A07 SOCIAL COHESION

Population mix	43 Ageing index
	44 Población exForeign populationtranjera
	45 College graduates
Housing	46 Social hpousing
Equipments	47 Provision of equipments
	48 Proximity to basic equipments

A08 SUSTAINABILITY GUIDE ROLE

49 Efficiency of the urban system

TIMEFRAME

- The external expertise has delivered the draft of the indicators system, this week.
- Technicians will make some suggestions and changes next two weeks.
- Beginning of October will be explained to the Local Support Group, and the group will suggest some more changes.
- The test will start in January 2011

Name	Organisation	Name	Organisation
Juan Carlos Alonso	**Vice Mayor**	Alfonso Sanz	**Director of Territorial Planning Department. Basque Gov.**
Javier Maroto	**Political Groups, representative in the Planning Commission.**	Miguel Virizuela	**Environment and mobility department**
Malentxo Arruabarrena		Alfredo Piris	**Ensanche 21 municipal corporation**
José Navas		Gonzalo Arroita	**ARICH municipal corporation**
Antxon Belakortu		Rafael Fernández de Carranza	**Landázuri Society (Heritage preservation)**
Esther Fernández	**Neighbourhood associations, elected in the citizen participation Commission**	Martín Gartziandia	**Law services**
Carlos Sevillano		Miguel Ibarrondo	**TUVISA municipal corporation**
Angel Luis Bellido	**Architects Institute**	Carmen Calles	**GILSA**
Juan Manuel Martínez	**Engineers Institute**	José Ramón Alonso	**Environmental Studies Centre**
Manuel Ramírez	**Social Council of the City**	Susana Vizcarra	**Urban development-planning department**
Aitor Ortiz de Zárate		Jesús Marcos	**Urban development-infrastructures department**
Luciano Omar de Giovanni	**Accessibility sectoral council**	Eugenio Ruiz	**University of the Basque Country**
Luis Ganuza	**Environment Sectoral council**	Andrés Ozaeta	**Chamber of commerce and Industry**
Javier Mendoza	**Commerce promotion sectoral council**		

Contact person: Martín Gartziandia**;** e-mail: mgartziandia@vitoria-gasteiz.org; Tel.: +34 945161884