

The Portuguese Strategy for Sustainable Cities towards smarter urban development

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“CS2020”: A reference framework for sustainable urban development



Smart Cities, Smart Growth and Sustainable Urban Development

Smart City Concept

- Quite erratic and unstable concept
- Several definitions, not always consistent
- Frequently connected with the use of digital technologies on behalf of cities performance (urban efficiency and sustainability) – “Intelligent City”

“smart” and “urban matters” - Spatial planning origin

- Smart growth vs New Urbanism (mid-90s)
- Environmentalists & policy planners vs architects & physical planners
- Principles: compact growth, mixed land uses, transit-oriented development, brownfield redevelopment, walkability, community participation and stakeholder collaboration
- Reaction against urban sprawl

Sustainable Urban Development

- Broad and comprehensive concept and approach

How is CS2020 moving towards smarter urban development?

1. Knowledge Basis

- Shares concepts, principles and understandings
- Embraces the strategic options on territorial development
- Presents a territorial diagnosis
- Establishes the key challenges for sustainable urban development

2. Roadmap

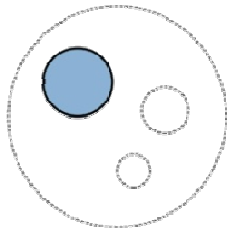
- Defines a strategic reference framework for cities
 - Vision and ambition
 - Guiding principles
 - Strategic guidelines
- Delivers a script towards implementation
 - Operational programming tools
 - Investment and financing opportunities

3. Public Forum

- Offers a public space for sharing experiences and disseminating knowledge
- Provides tools for measuring the performance of cities
- Fosters the use of ICT in the benefit of cities and urban management

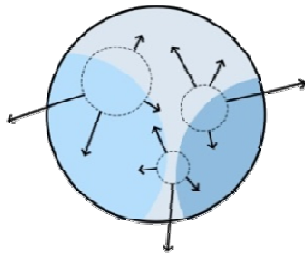
1. KNOWLEDGE BASIS

The three urban dimensions



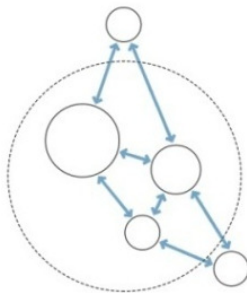
Intraurban dimension

Urban cores and built-up urban areas and their role in the social, economic, cultural and environmental functioning of urban areas and communities



City-region dimension

Functional urban areas and the social and economic relations and interdependencies between the urban centers and the urban-rural regions they are located in

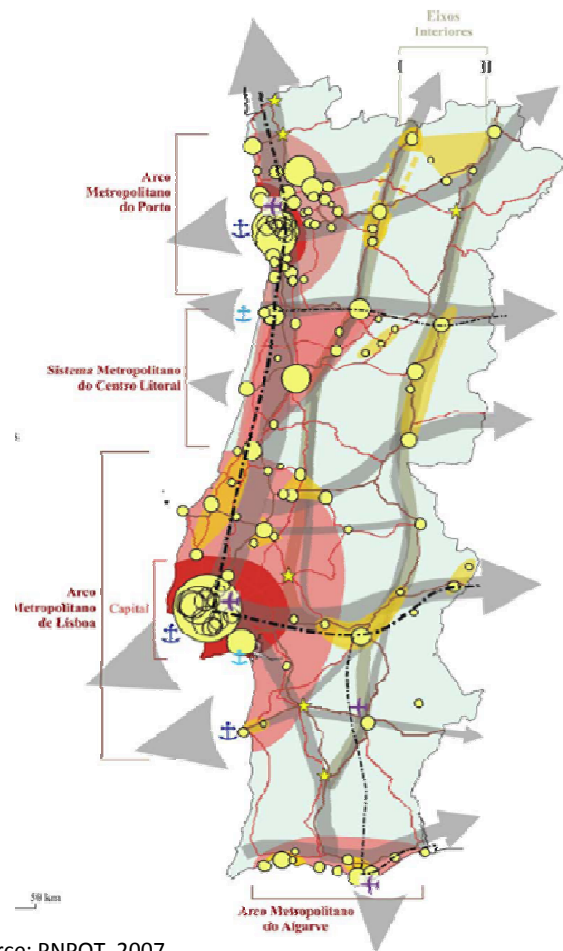


Interurban dimension

Networks of cities and flows generated on a basis of polarization, complementarity and hierarchy

1. KNOWLEDGE BASIS

Strategic options on territorial development PNPOT – the national spatial development policy programme



Source: PNPOT, 2007

*National Act no 58/2007

PNPOT is the national spatial planning instrument adopted by the National Assembly in 2007

*National options on territorial development

PNPOT establishes the spatial development model and national guidelines for Portugal in 2025

*National urban system

PNPOT establishes and recognizes the structural nature of the national urban system, with its metropolitan and non-metropolitan system

1. KNOWLEDGE BASIS

Territorial Diagnosis Urbanization, metropolization, coastalization

*Demographic and social changes

- Ageing population
- Coastal and urban attraction
- Ubiquity of the urban way of life

*Asymmetrical territorial development

- Wealth concentration
- Jobs and business opportunities
- Social capital and capacities

*Great urban expansion

- Greater growth of metropolitan areas
- Big expression of medium-sized cities
- Expressive urban consumption of land
- Scattered building in rural areas
- Low quality of urban fringes



Source: Nocturnal lights , NASA, 2012

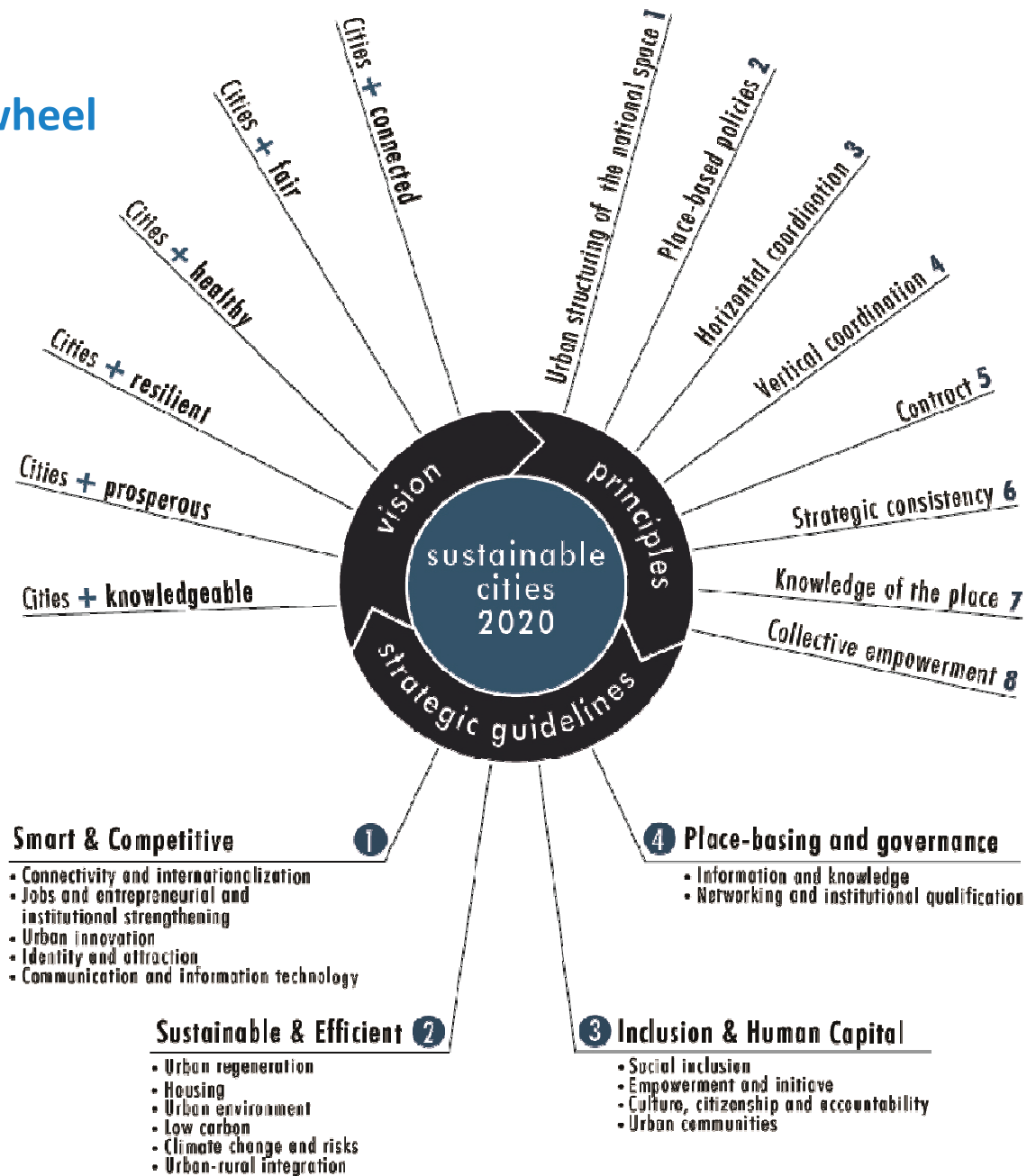
1. KNOWLEDGE BASIS

10 key challenges for sustainable urban development

- 1. Competitiveness and growth** Assert the key role of cities in economic growth and territorial competitiveness
- 2. Social inclusion and cohesion** Acknowledge the extension and polarization and invert the urban processes of social exclusion and poverty
- 3. Demographic changes** Take in consideration the tendencies for shrinking and aging population and seek proper responses
- 4. Strategic Governance** Involve and empower the urban agents through strategic and operational coordination
- 5. Land use** Stabilize land use through the contention and regression of urban land and fair redistribution of the costs and benefits of urban development
- 6. Financial viability** Invest in urban development through the potential of structural European funds and the capture of other sources of capital
- 7. Urban regeneration** Promote the investment of built-up areas through comprehensive approaches and place-based partnerships
- 8. Sustainability and resilience** Bet on a sustainable urban development model, harnessing endogenous resources and building on great efficiency of the urban services
- 9. Urban-rural integration** Promote interdependencies and complementarities between urban centers and its hinterland
- 10. International integration** Promote the attraction visibility and connection of the metropolitan areas and cities in Europe and the World

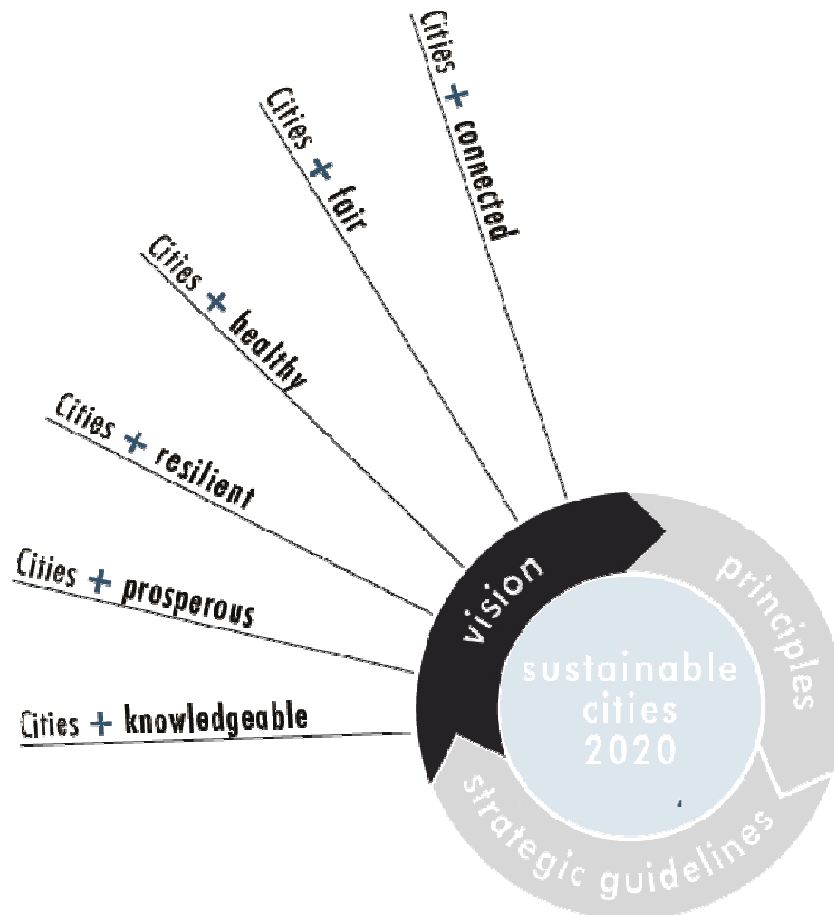
2. ROADMAP

The steering wheel



2. ROADMAP

Vision & Ambition



Cities + prosperous

Attractive, with good quality of life
Innovative, creative, smart and entrepreneur

Cities + resilient

Capable of managing uncertainty and unpredictability, knowing and valuing the territorial assets knowledge

Cities + healthy

Enablers of healthy life styles and a sense of belonging, eco- efficient, low carbon and low waste communities

Cities + fair

Engaged by its citizens and communities, endowed with good public services and good access to housing

Cities + connected

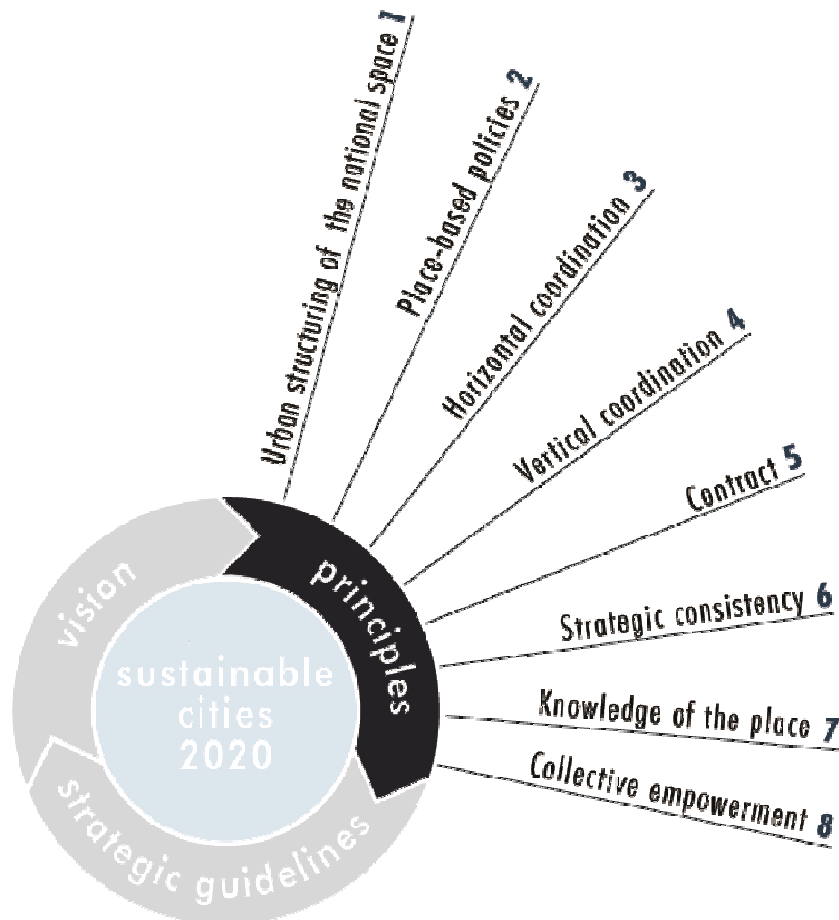
Connected to Europe, the World, anchors of development and cohesion

Cities + knowledgeable

Technologically equipped to know and open to the engagement of citizens institutions, fostering an accountable governance

2. ROADMAP

Guiding principles



1. Urban structuring of the national space

National Urban System as multisectorial rational criteria

2. Place-based policies

Place-based approaches, set to the subregional specificities

3. Horizontal coordination

Multisectorial coordination and articulation on sustainability and spatial and urban planning

4. Vertical coordination

Coordination between national, regional, subregional and local levels of government

5. Contract

Leadership, accountability, involvement, participation, and commitment of the stakeholders

6. Strategic consistency

Long-term perspective on the sustainability of the urban systems

7. Knowledge of the place

Systematic and integrated production of knowledge on urban sustainability

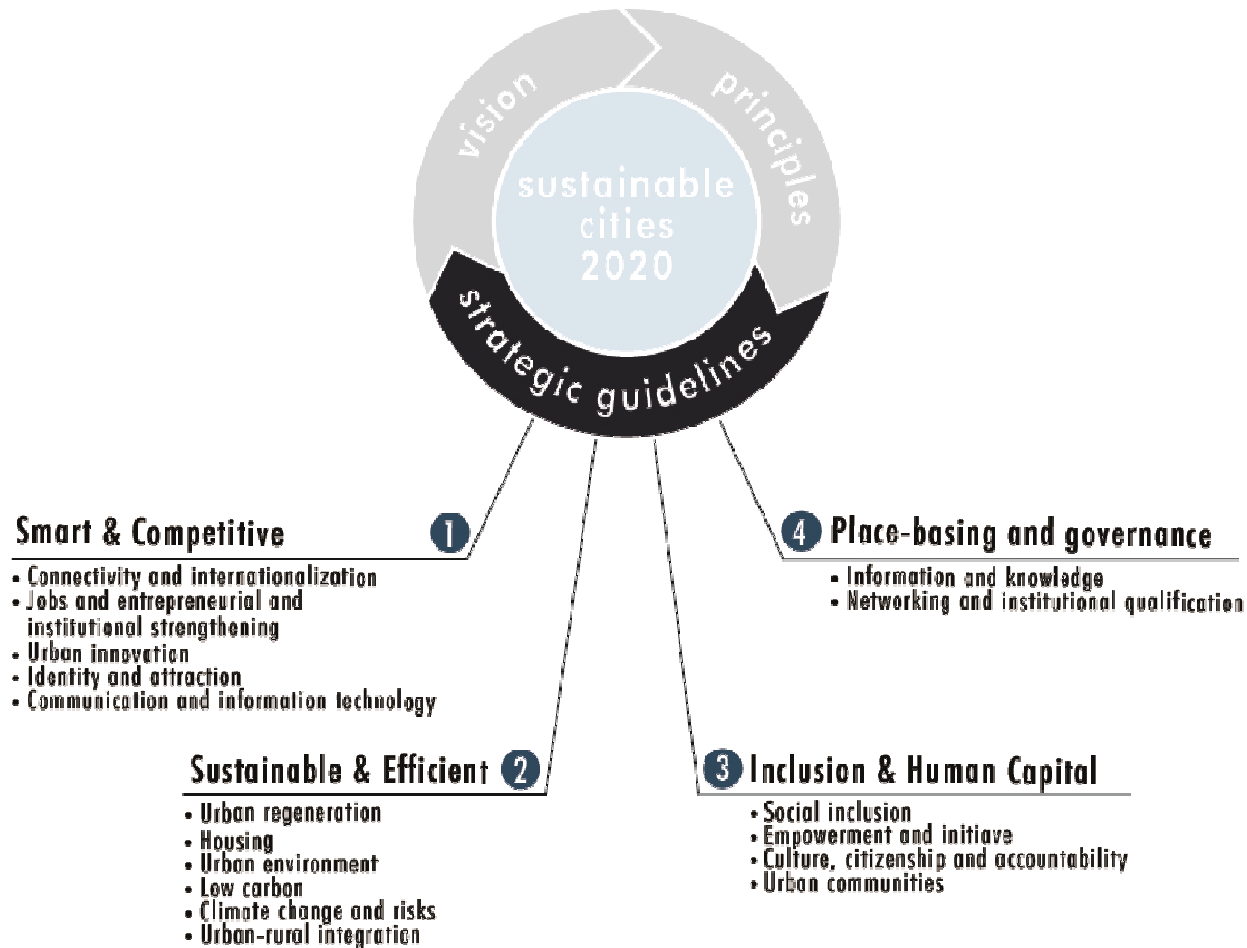
8. Collective empowerment

Innovation and open share and cooperation between public and private and the civil society

2. ROADMAP

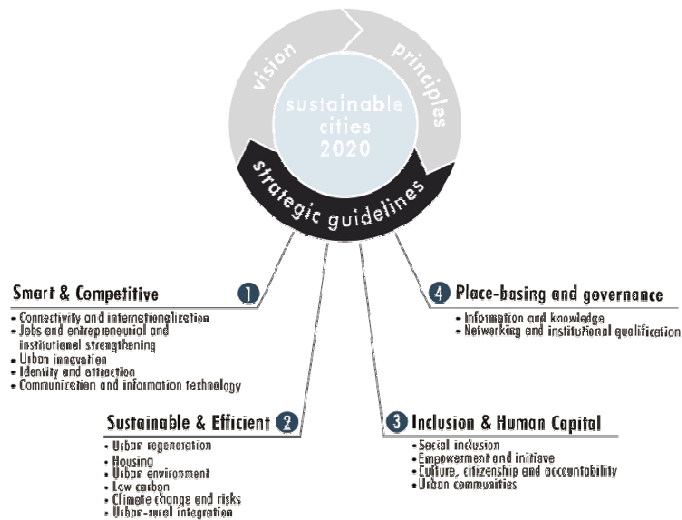
Strategic Guidelines

52 strategic guidelines for municipalities and their associations to set their Sustainable Urban Development Strategies



2. ROADMAP

Strategic Guidelines



Intraurban dimension



City-region dimension



Interurban dimension

Axis 1. Smartness & Competitiveness

Connectivity and internationalization
 Jobs and entrepreneurial and institutional strengthening
 Urban innovation
 Identity and attraction
 Communication and information technology

Axis 2. Sustainability & Efficiency

Urban regeneration
 Housing
 Urban environment
 Low carbon
 Climate change and risks
 Urban-rural integration

Axis 3. Inclusion & Human Capital

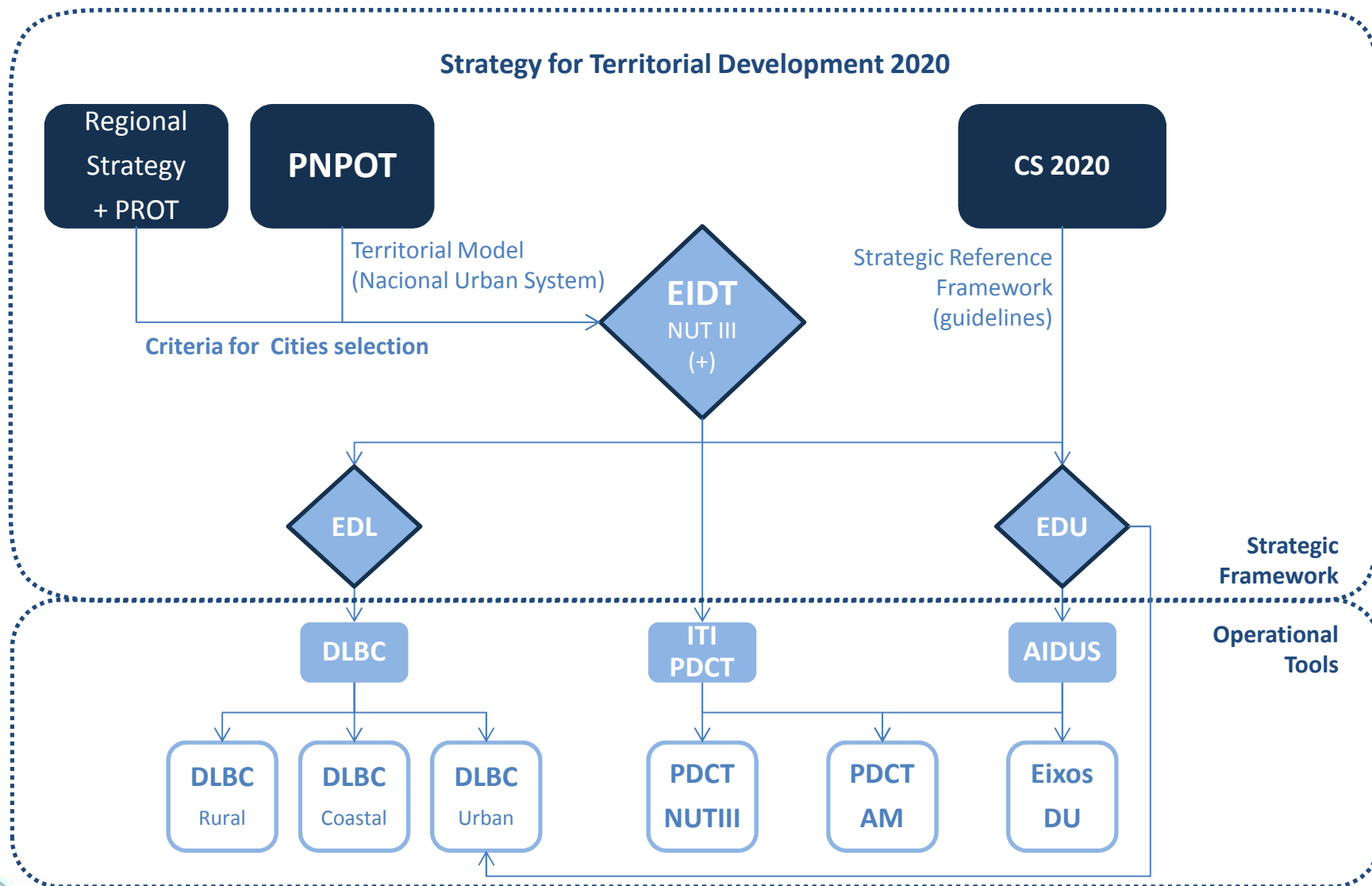
Social inclusion
 Empowerment and initiative
 Culture, citizenship and accountability
 Urban communities

Axis 4. Place-based & governance

Information and knowledge
 Networking and institutional qualification

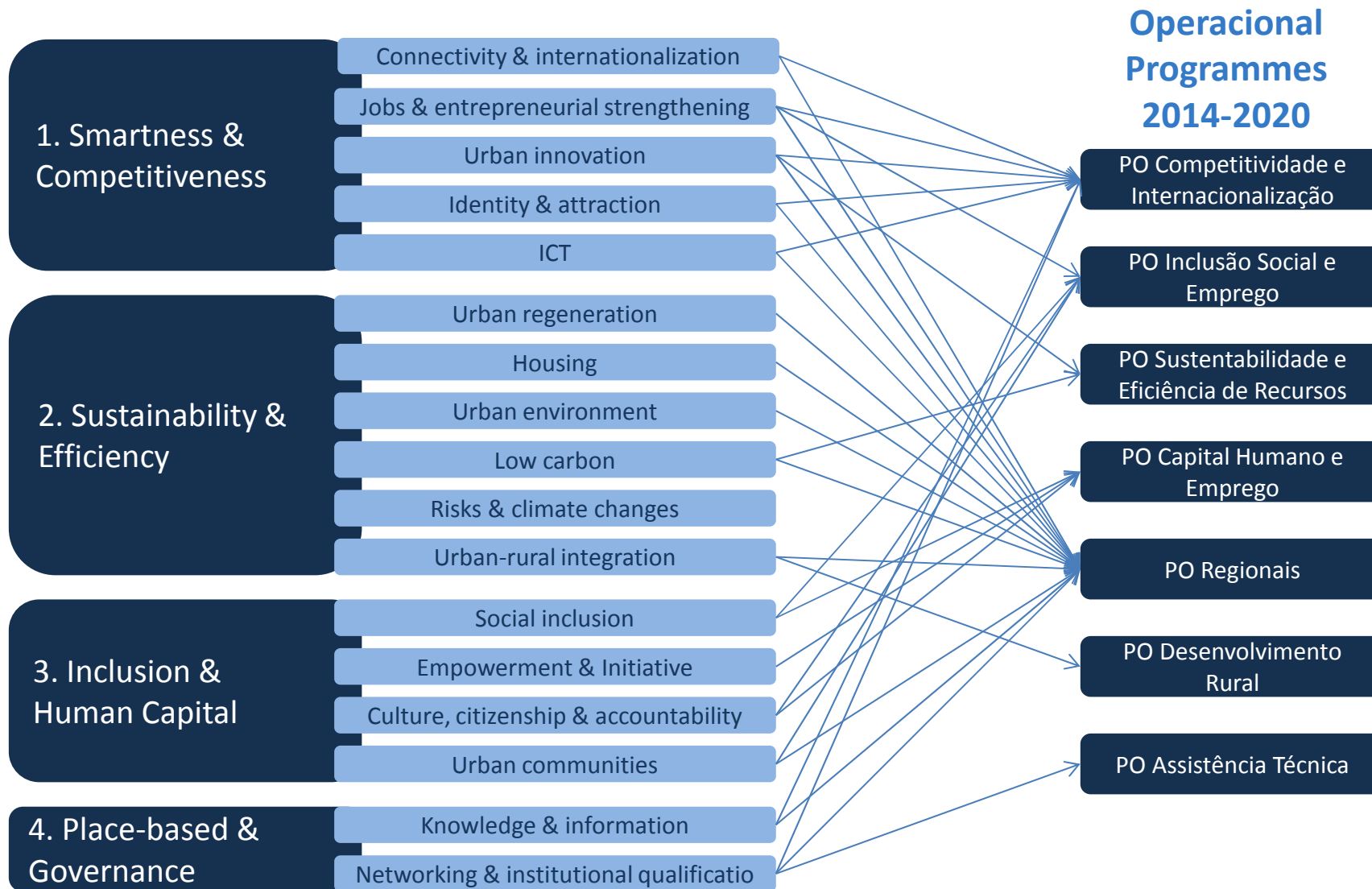
2. ROADMAP

Portugal 2020 - Integrated Territorial Approaches



2. ROADMAP

Portugal 2020 - Operational Programmes



3. FORUM

Making it happen Forum Sustainable Cities

Online platform with a set of tools geared towards cities, urban agents and urban dwellers

- **Urban agendas**, gathering the essential information on international debate of urban issues, European Union main documents, national, regional and local urban policies
- **Urban networking**, joining information and news on international, european and national networks of cities
- **CS2020 Barometer** of Urban Sustainability for thematic benchmarking of Portuguese cities
- The collection of urban projects in several areas of urban planning and management
- **Living document** of the cities, a space for reflection, production and dissemination of knowledge of the cities and urban policies
- **Urban Analytics**, promoting tools and sharing experience on informational systems
- **Sustainable cities conference**, annual event under the celebrations of the World Urbanism Day, November 8th

3. FORUM

Making it happen Barometer of Sustainable Cities

Tool aimed at measuring and comparing the performance of urban sustainability in Portugal

- **Reliable information**

The included data must be accurate and reliable, built upon national statistics and local data collected in a standardized manner;

The major raw data will be housed in the **Observatory of Spatial Planning**, contributing to the building up of a national system of spatial planning and urbanism data;

- **Relevant information**

The indicators must depict and measure the city's performance in the main aspects of Urban Sustainability;

- **Comparable data**

The city must be able to compare its indicators and performance with other national cities and, preferably, with other cities worldwide;

The national adoption and implementation of **ISO 37120 Sustainable Development of Communities: Indicators for City Service and Quality of Life** is a strong possibility.

3. FORUM

Making it happen

Barometer of Sustainable Cities

Tool aimed at measuring and comparing the performance of urban sustainability in Portugal

- **Helping to make better policies**

The measurement of the state and trends in urban sustainability will be able to provide robust information for:

- The building up of **national urban standards** to all Portuguese cities based on the depiction of their present stand and trends;
- The building up of a path for a **national certification system** on urban sustainability for the voluntary adhesion of cities;
- The betterment of urban policies and greater focus on sustainable urban development through realistic and attainable **policy targets**;
- The betterment of public **accountability** and citizens **awareness** through robust information and the exclusion of local bias and cherry picking.



Thank you!

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