MINISTER OF AGRARIAN AFFAIRS AND SPATIAL PLANNING/
HEAD OF NATIONAL LAND AGENCY

INDONESIA SPATIAL PLANNING IN DIGITAL ERA

ISOCARP
PLENARY SESSION
Jakarta, 11\textsuperscript{th} September 2019
The National Spatial Plan (RTRWN) is a regulation for spatial utilization in the national level. The National Spatial Plan is also a continuation from the Law Number 26 of 2007 concerning Spatial Planning on article 20 clause 6.

**NATIONAL HUB**
- Main hub for export-import
- National level hub for industry and services
- National level transportation hub
- Located on the coast, that is or have the potential to become international port and the gateway to export goods from the maritime industry.

**STRATEGIC NATIONAL HUB**
- International entryway (border town)
- Regional transportation hub
- Economic hub that could boost the development for its vicinity

**REGIONAL HUB**
- Secondary hub for export-import to support the National Hub
- Provincial level/regional level hub for industry and services
- Provincial level/regional level transportation hub
- Located on the coast and is or have the potential to boost the national maritime economy
The National Spatial Plan (RTRWN) supports the Goal 11 of SDGs by establishing National Strategic Areas (KSN) for economic development for sustainable urbanization and cultural and social development to preserve the cultural heritage.

**NATIONAL STRATEGIC AREA PLAN**

**ECONOMIC DEVELOPMENT**

- KSN Jabodetabekpunjur
- KSN Sarbagita
- KSN Mamminasata
- KSN Mebidangro
- KSN Cekungan Bandung
- KSN Kedungsepur

**CULTURAL & SOCIAL DEVELOPMENT**

- KSN Borobudur and the Vicinity
- KSN Patunglaya
- KSN Bimindo
- KSN Banjarbakula
- KSN KPBPB Sabang
- KSN Gerbangkertasusila
- KSN Gerbangkertasusila

**5 COMPOSING**

- 1 PRESIDENTIAL REGULATION
  - KSN Prambanan Temple and the Vicinity
  - KSN Bali Landscape
- 3 COMPOSING
  - KSN Toraja dan the Vicinity
NATIONAL STRATEGIC AREA
JABODETABEKPUNJUR

“JABODETABEKPUNJUR AS AN INTEGRATED REGION”
UPSTREAM – MIDDLE STREAM – DOWNSTREAM – COASTAL

PRESIDENTIAL REGULATION NUMBER 54 OF 2008

- **UPSTREAM**
- **MIDDLE STREAM**
- **DOWNSTREAM**
- **COASTAL**

**PROTECTED ZONE and WATER RESOURCE**
Assigned as CONSERVATION ZONE and LIMITED AND STRICT DEVELOPMENT ZONE

**BUFFER ZONE and WATER CATCHMENT AREA**
Assigned as CONSERVATION ZONE AND LIMITED DEVELOPMENT ZONE

**DEVELOPMENT ZONE**
Assigned as DEVELOPMENT ZONE

**COASTAL CONSERVATION** dan **DEVELOPMENT ZONE**
Assigned as COASTAL CONSERVATION ZONE & LIMITED DEVELOPMENT ZONE

**PRESIDENTIAL REGULATION NUMBER 54 OF 2008**

"JABODETABEKPUNJUR AS AN INTEGRATED REGION" 
UPSTREAM – MIDDLE STREAM – DOWNSTREAM – COASTAL 

PRESIDENTIAL REGULATION NUMBER 54 OF 2008
Cekungan Bandung Urban Area surrounded by mountain range
- The 'basin' is dominated by developed areas

**Presidential Regulation Number 45 of 2018**

**Urban Area**

- Cekungan Bandung Urban Area surrounded by mountain range
- The 'basin' is dominated by developed areas

**Sungai Citarum**

**Tangkuban Perahu (2084 m)**

**Cekungan Bandung Urban Area surrounded by mountain range**

**Sungai Citarum**

**Gn. Papandayan (±2665 m)**

**Gn. Malabar (2343 m)**

**Gn. Patuha (2434 m)**

**Gn. Cikuray (±2820 m)**

**Waduk Cirata**

**HEIGHT (m a.s.l)**

- 2472-2805
- 2169-2472
- 1866-2169
- 1563-1866
- 1261-1563

- 958-1261
- 655-958
- 352-655
- 50-352
Urban Area

Cekungkan Bandung
(Bandung Basin)

REGENCY/CITY ON DELINEATION

<table>
<thead>
<tr>
<th></th>
<th>Total Area (85 Kecamatan)</th>
<th>Population 2016</th>
<th>Population 2037</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>CITY OF BANDUNG</strong></td>
<td>349.750 Ha</td>
<td>8.679.485 People</td>
<td>12.340.625 People</td>
</tr>
<tr>
<td><strong>CITY OF CIMahi</strong></td>
<td>4.020 ha</td>
<td>586.580 people (2016)</td>
<td>834.008 people (2037)</td>
</tr>
<tr>
<td><strong>REGENCY OF BANDUNG BARAT</strong></td>
<td>130.577 ha</td>
<td>1.636.316 people (2016)</td>
<td>2.326.539 people (2037)</td>
</tr>
<tr>
<td><strong>REGENCY OF SUMEDANG</strong></td>
<td>22.453 ha</td>
<td>369.344 people (2016)</td>
<td>525.139 jiwa (2037)</td>
</tr>
<tr>
<td><strong>REGENCY OF BANDUNG BARAT</strong></td>
<td>175.968 ha</td>
<td>3.596.623 people (2016)</td>
<td>5.113.734 people (2037)</td>
</tr>
</tbody>
</table>

Population growth assumption 1.69% annually

PRESIDENTIAL REGULATION NUMBER 45 OF 2018
TOWARD DIGITALIZING SOCIALIZATION FOR SPATIAL PLANNING
COMMUNITY PARTICIPATION WITH DIGITAL PLATFORM
http://gistaru.atrbpn.go.id/
The Display of ONLINE SPATIAL PLAN (RTR)

http://gistaru.atrbpn.go.id/rtronline/

- **RTRWN**: 17 of 76 RTR KSN have been uploaded (17 RTR KSN have become Perpres)
- **KSN**: 7 of 7 RTR Pulau have been uploaded (7 RTR Pulau have become Perpres)
- **ISLAND**: 34 of 34 RTRW Provinsi have been uploaded (34 RTRW Provinsi have become Perda)
- **PROVINCE**: 376 of 415 RTRW Kabupaten have been uploaded (392 RTRW Kabupaten have become Perda, 23 RTRW Kabupaten have not yet become Perda)
- **REGENCY**: 88 of 93 RTRW Kota have been uploaded (88 RTRW Kota have become Perda, 5 RTRW Kota have not yet become Perda)
- **CITY**: 43 of 2,000 RDTR have been uploaded (53 RDTR have become Perda, 1,947 RDTR have not yet become Perda)
- **PROVINCE**: 16 of 34 RTRW Provinsi have been uploaded (34 RTRW Provinsi have become Perda)
- **REGENCY/MUNICIPAL**: 296 of 508 RTRW Kabupaten/Kota have been uploaded (392 RTRW Kabupaten/Kota have become Perda, 23 RTRW Kabupaten/Kota have not yet become Perda)
RTR BUILDER MODULE

1. DATA ACQUISITION
   • Satellite Image

2. IMAGE PROCESSING

3. COMPILING TECHNICAL DOCUMENTS
   • Matek

4. SPATIAL ANALYSIS

5. PUBLIC HEARING

6. ELECTRONIC DATA APPROVAL
FRAMEWORKS IN DRAFTING STATE REGULATION FOR SPATIAL PLANNING

**PRA LEGALIZATION**

- Land Carrying Capacity

**POST LEGALIZATION**

- Spatial Utilization Suitability

  - Plantation
  - Protected Forest
  - Permanent Production Forest
  - Mining
  - Tourism
  - Industry/Manufacturing
  - Housing

- Laws and Regulations

- Sectoral Programmes

**Geographic Information System (GIS) TARU**

- PORTAL
  - MONITORING STATUS

- RTR BUILDER
  - GEOPLANNER
  - ARCGIS URBAN

- State Regulation RTRW (Spatial Plan) (Spatial Pattern)
Enabling informed decision making through geodesign

Design templates and Key Performance Indicators Dashboard

Suitability

Modeler

Spatial Analysis

Sketch, compare designs and download reports
GIS-BASED URBAN DIAGNOSTIC TOOL

Make Better Planning and Inform the Public

Interactive 3D planning tools

Create plans, visualize zoning code, and manage scenarios

Monitor projects and development impacts
GIS-BASED URBAN DIAGNOSTIC TOOL

People-oriented

Citizen Engagement and Crowdsourcing

Map-based: classical, does not scale well, needs a lot of man power to achieve good results

Web-based: scales well concerning outreach, data overflow, difficult analysis/aggregation of comments
THANK YOU

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www.atrbpn.go.id/   gistaru.atrbpn.go.id/rtronline