



ASEAN
AUSTRALIA
SMART CITIES
TRUST FUND
Asian Development Bank



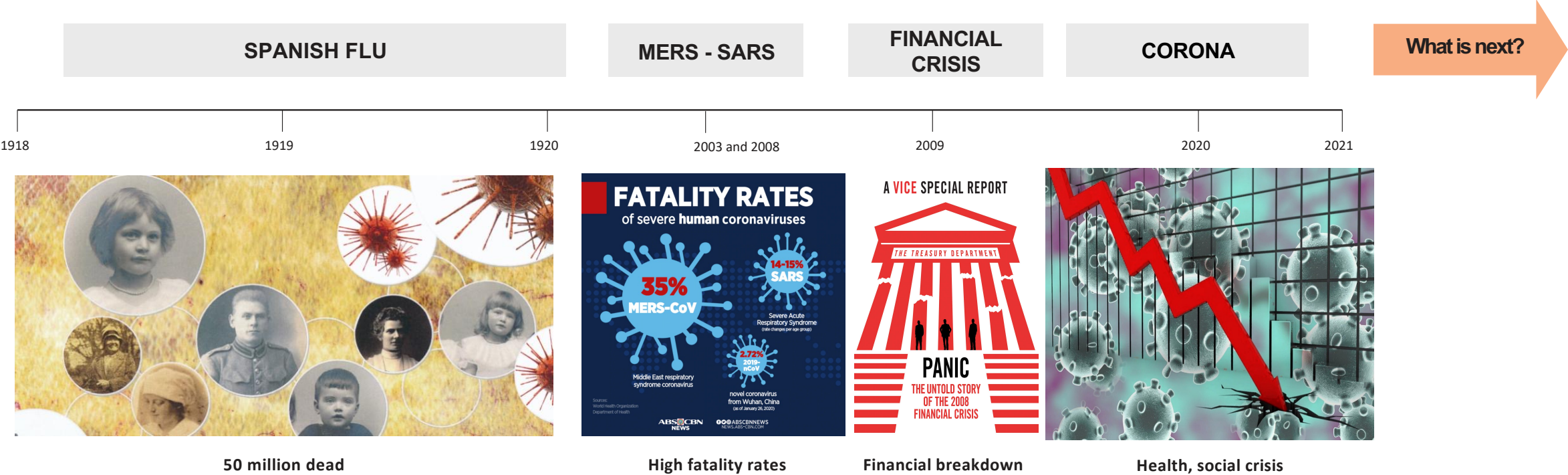
Australian Government
Department of Foreign Affairs and Trade

Smart Cities: Moving from Best Practice to Next Practice

Joris van Etten

Senior Urban Development Specialist, Asian Development Bank

Shocks and stresses - impacting urban living



An architectural rendering of a sustainable urban development. The scene features modern, multi-story buildings with glass facades and wooden accents. The buildings have extensive green roofs with trees and plants. A central courtyard area is paved and surrounded by greenery, with people walking and sitting. In the foreground, two people are riding bicycles on a path. The background shows more modern buildings under a blue sky with clouds.

Now is the time to rethink and to move from best practice to next practice

- Best practice is retrospective and more of the same
- Cities last for the next 100s of years and must resist many future shocks and stresses
- Best practice is system centric. Next practice must be human centric and resilient

Smart and Livable City Concept



MOBILITAS YANG CERDAS

SMART MOBILITY

MASYARAKAT YANG
CERDAS

SMART PEOPLE

BERKEHIDUPAN YANG
CERDAS

SMART LIVABILITY

EKONOMI YANG
CERDAS

SMART ECONOMY

PEMERINTAHAN YANG
CERDAS

SMART GOVERNMENT

LINGKUNGAN YANG
CERDAS

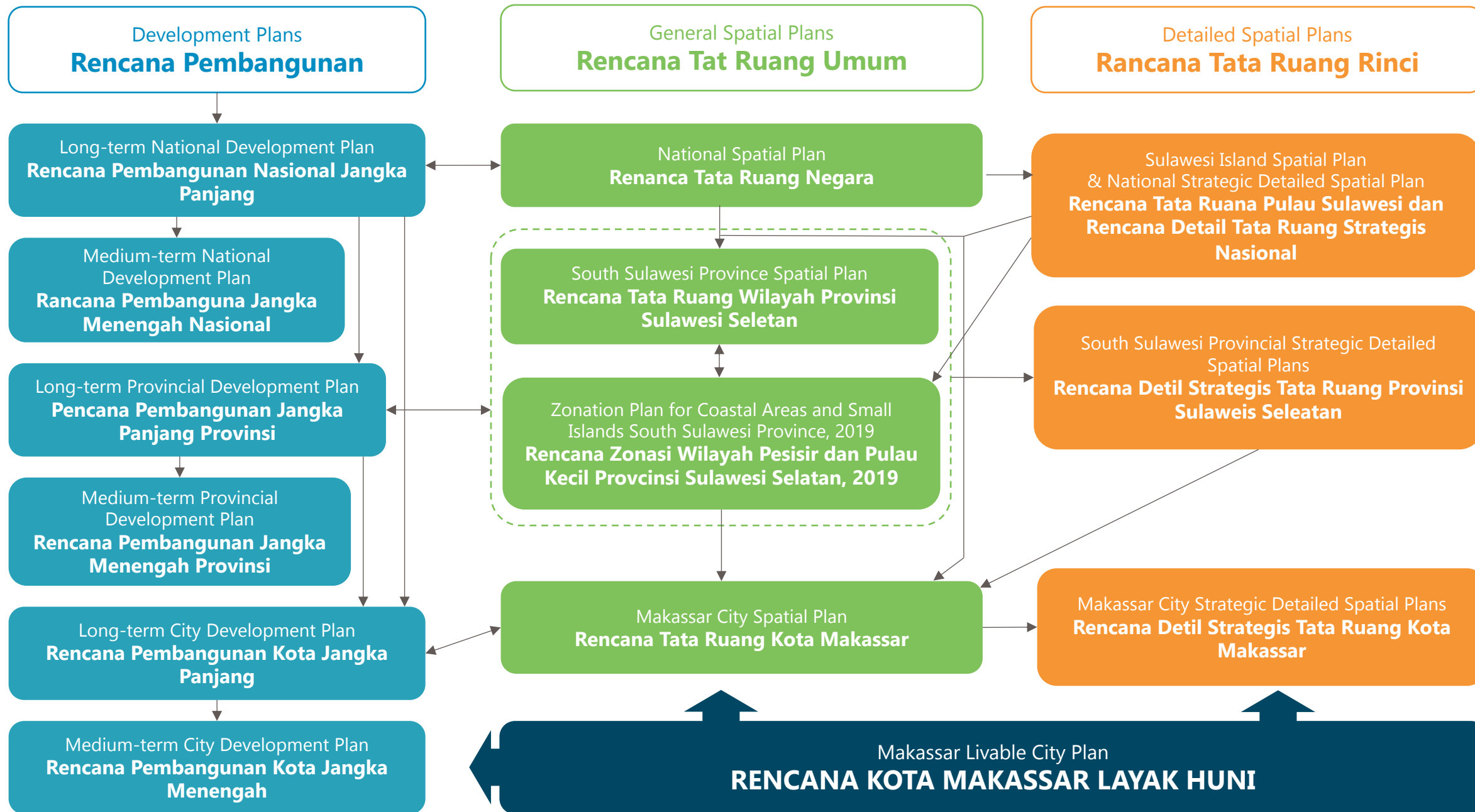
SMART ENVIRONMENT



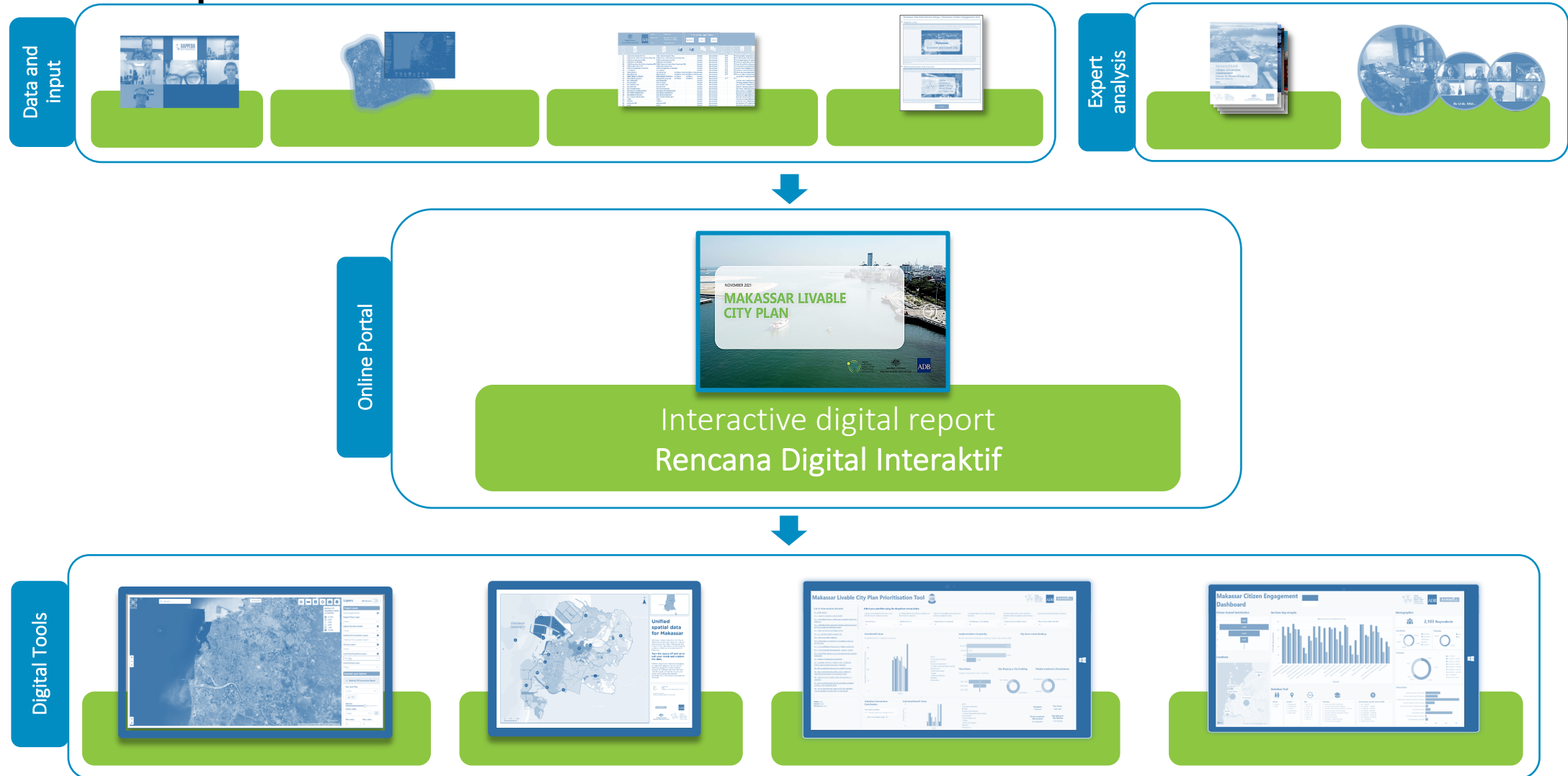
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Makassar Livable City Plan

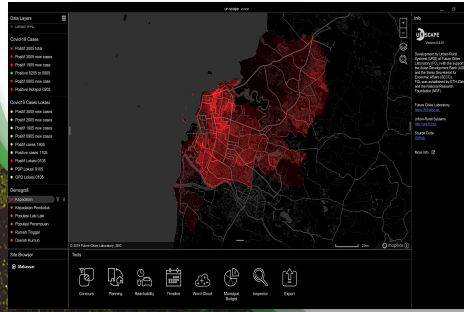
Needs and challenges



Concept



Data and inputs



Spatial and temporal data sets

Project #		Filter by Language/Bahasa	
11000077-001		English/National	ENG
Task Order No 1.1: IHO Strategic Urban Framework for Makassar		National	
Client		Asian Development Bank	
1. Title	2. Author	3. Penulis	4. Language
3. BAB 3 Kondisi Eksisting SPAN FINAL	3. BAB 3 Kondisi Eksisting SPAN FINAL	3. BAB 3 Kondisi Eksisting SPAN FINAL	Indonesian
4. BAB 4 Standar - Kriteria Perencanaan Kota Cirebon FINAL	4. BAB 4 Standar - Kriteria Perencanaan Kota Cirebon FINAL	4. BAB 4 Standar - Kriteria Perencanaan Kota Cirebon FINAL	Indonesian
5. BAB 5 Proyeksi Kebutuhan Air FINAL	5. BAB 5 Proyeksi Kebutuhan Air FINAL	5. BAB 5 Proyeksi Kebutuhan Air FINAL	Indonesian
6. BAB 6 Rencana Air Baku FINAL	6. BAB 6 Rencana Air Baku FINAL	6. BAB 6 Rencana Air Baku FINAL	Indonesian
7. BAB 7 Rencana Induk Dan Pra Desain Pengembangan FINAL	7. BAB 7 Rencana Induk Dan Pra Desain Pengembangan FINAL	7. BAB 7 Rencana Induk Dan Pra Desain Pengembangan FINAL	Indonesian
8. BAB 8 Analisis Keuangan FINAL	8. BAB 8 Analisis Keuangan FINAL	8. BAB 8 Analisis Keuangan FINAL	Indonesian
9. BAB 9 Ketersediaan Riasan Cirebon FINAL	9. BAB 9 Ketersediaan Riasan Cirebon FINAL	9. BAB 9 Ketersediaan Riasan Cirebon FINAL	Indonesian
10. Lembar penyusutan	10. Lembar penyusutan	10. Lembar penyusutan	Indonesian
LAKUP DISHUB 2019	LAKUP DISHUB 2020	LAKUP DISHUB 2020	Indonesian
RENTA DISHUB 2020	RENTA DISHUB 2021	RENTA DISHUB 2021	Indonesian
RENTA TERBARU TIPOKSI 2017	RENTA TERBARU TIPOKSI 2018	RENTA TERBARU TIPOKSI 2018	Indonesian
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BAB 2 METODOLOGI	BAB 2 METODOLOGI	BAB 2 METODOLOGI	Indonesian
BAB 3 GAMBARAN UMUM	BAB 3 GAMBARAN UMUM	BAB 3 GAMBARAN UMUM	Indonesian
BAB 4 REVIEW BRT	BAB 4 REVIEW BRT	BAB 4 REVIEW BRT	Indonesian
BAB 5 PENGUMPULAN DATA	BAB 5 PENGUMPULAN DATA	BAB 5 PENGUMPULAN DATA	Indonesian
BAB 6 DESAIN DAN SPESIFIKASI TEKNIS	BAB 6 DESAIN DAN SPESIFIKASI TEKNIS	BAB 6 DESAIN DAN SPESIFIKASI TEKNIS	Indonesian
BAB 7 RENCANA ANGGARAN BIAYA	BAB 7 RENCANA ANGGARAN BIAYA	BAB 7 RENCANA ANGGARAN BIAYA	Indonesian
BAB 8 KESIMPULAN DAN SARAN	BAB 8 KESIMPULAN DAN SARAN	BAB 8 KESIMPULAN DAN SARAN	Indonesian
DAFTAR ISI	DAFTAR ISI	DAFTAR ISI	Indonesian
gambar-gambar BRT	gambar-gambar BRT	gambar-gambar BRT	Indonesian
lampiran	lampiran	lampiran	Indonesian

Data and document library

Makassar Alat Keterlibatan Warga / Makassar Citizens Engagement Tool

Pengantar survey

Untuk Masyarakat Makassar, Kota Makassar saat ini sedang berada dalam proses pengembangan jangka panjang menuju kota pintar dan layak huni guna kepentingan seluruh warganya. Karenanya, kota Makassar merasa perlu mendapatkan masukan-masukan tentang pengalaman langsung Anda terhadap kualitas pelayanan umum, kepentingan layanan dan akses ke berbagai layanan di kota Makassar.

Karenanya, kami mohon Anda dapat meluangkan waktu 15-20 menit untuk mengisi kuesioner ini. Kuesioner ini bersifat anonim, keterusterangan Anda dalam menjawab sangat kami hargai. Semua informasi yang kami terima dari Anda akan bersifat anonim. Namun, hasil keseluruhan survei akan dibagikan ke publik sebagai bagian dari keseluruhan proses perencanaan kota dan keterlibatan warga. Tim survei dapat dihubungi di ASCI-ADB@ramboli.id.

ASEAN Australia Smart Cities Trust Fund

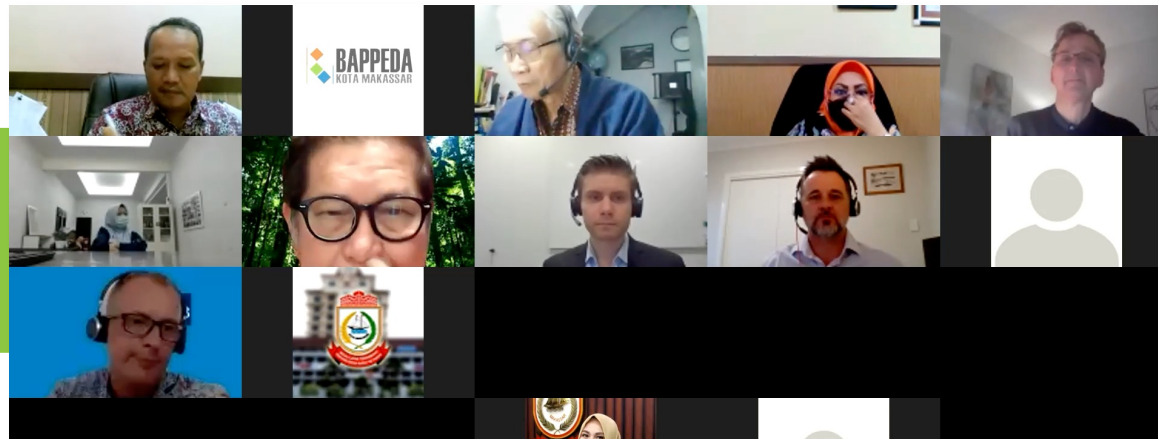
ASEAN Australia Smart Cities Trust Fund (AASCTF) membantu kota-kota ASEAN dalam rangka meningkatkan sistem perencanaan, penyediaan layanan dan manajemen keuangan mereka dengan mengembangkan dan menguji solusi dan sistem digital yang sesuai

Pilihan Bahasa* tersedia di bagian atas layar dan dapat diubah setiap saat.

[Next](#)

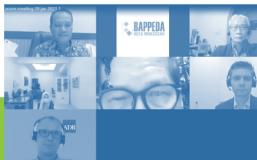
Citizen engagement

Collaboration

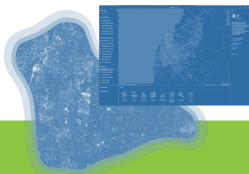


Expert analysis

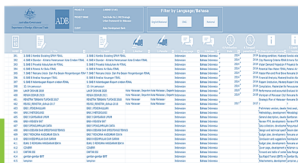
Data and input



Collaboration



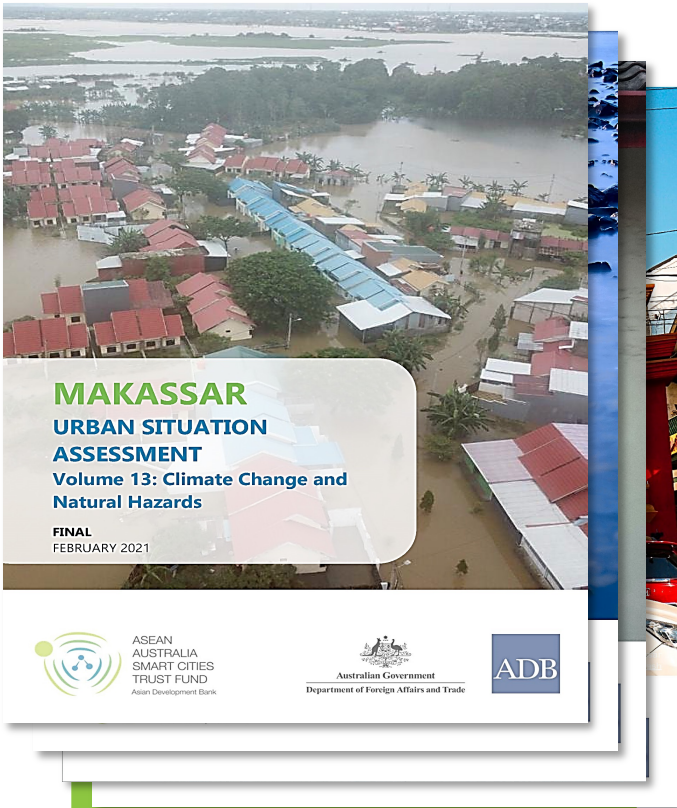
Spatial and temporal data sets



Data and document library



Citizen engagement

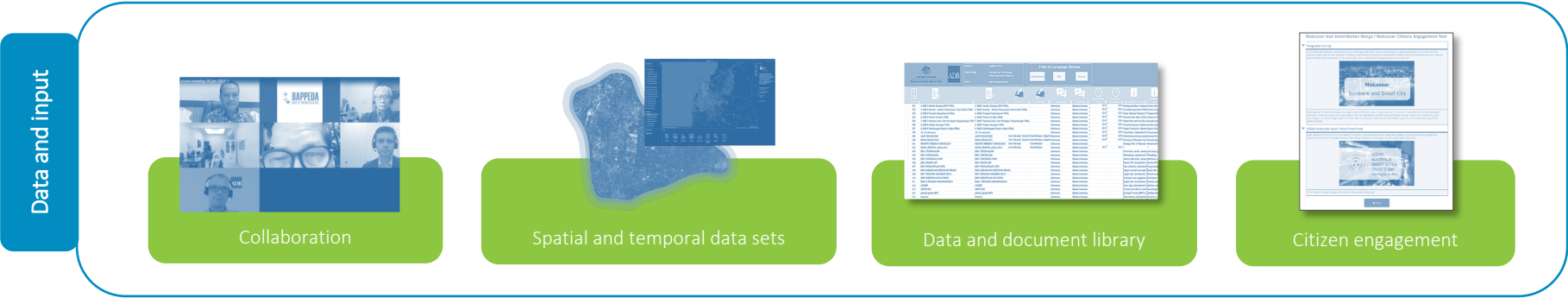


Multi-sector analysis



Pemkot Makassar collaboration

Interactive Digital Report



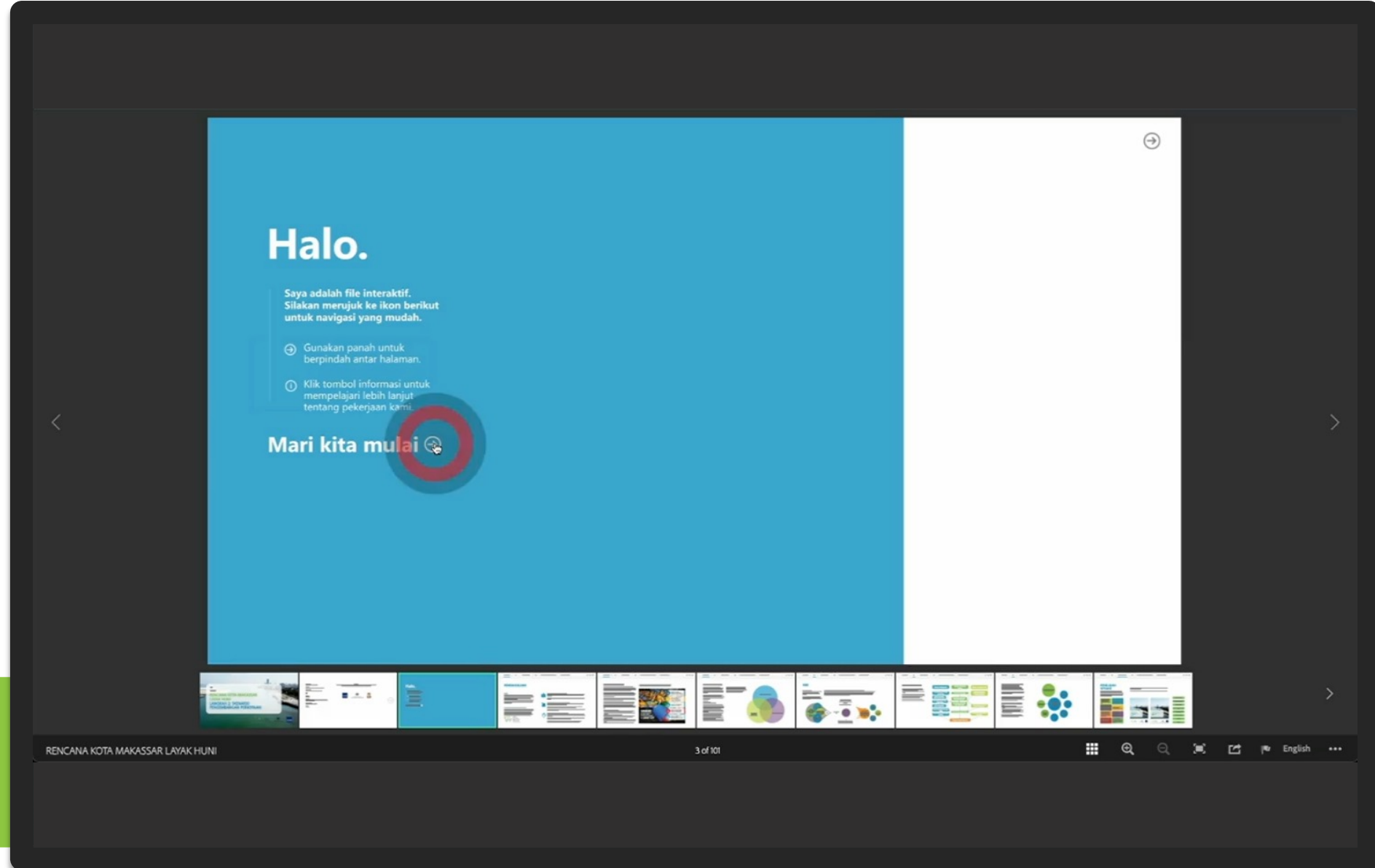
Rencana Digital Interaktif



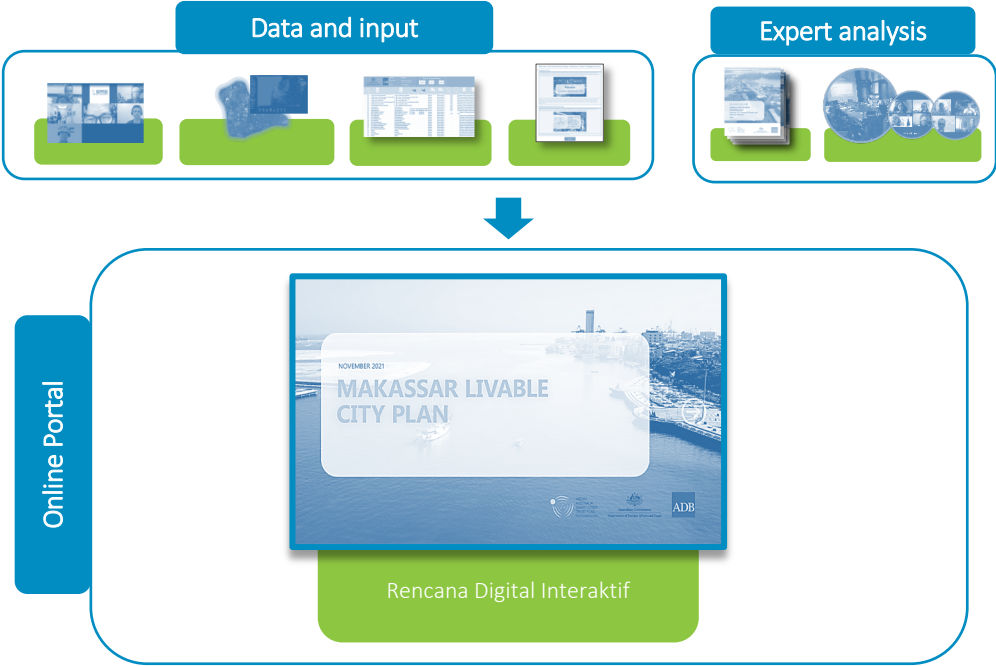
Interactive Digital Report



Rencana
Digital
Interaktif

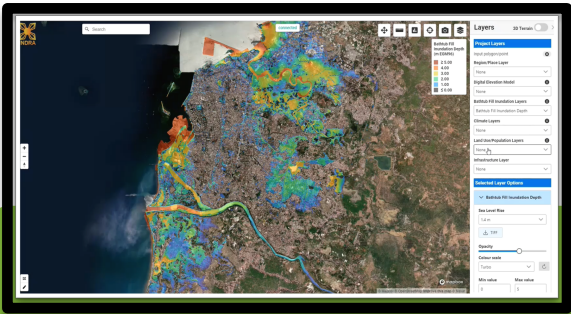


Digital Tools

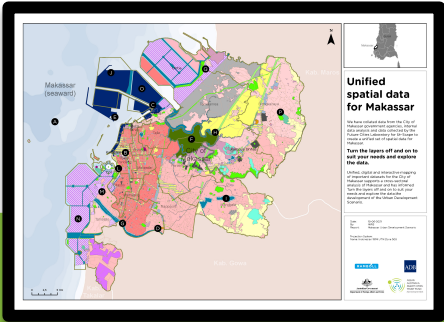


Digital Tools

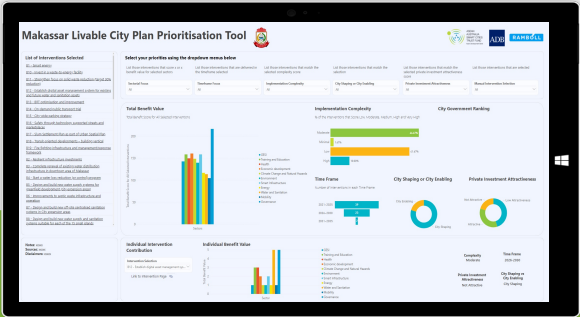
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Digital Climate Resilience Platform



Unified Spatial Data



Intervention Prioritisation Tool



Stakeholder Engagement Dashboard

Smart City Intervention Prioritisation Tool



Makassar Livable City Plan Prioritisation Tool



List of Interventions Selected

- B1 - Smart energy
- B10 - Invest in a waste-to-energy facility
- B11 - Strengthen focus on solid waste reduction (target 30% reduction)
- B12 - Establish digital asset management system for existing and future water and sanitation assets
- B13 - BRT optimisation and improvement
- B14 - On-demand public transport trial
- B15 - City-wide parking strategy
- B16 - Safety through technology supported streets and marketplaces
- B17 - Slum Settlement Plan as part of Urban Spatial Plan
- B18 - Transit-oriented developments - building vertical
- B19 - Fire fighting infrastructure and management/response framework
- B2 - Resilient infrastructure investments
- B3 - Complete renewal of existing water distribution infrastructure in downtown area of Makassar
- B4 - Start a water loss reduction (or control) program
- B5 - Design and build new water supply systems for greenfield development (city expansion areas)
- B6 - Improvements to septic waste infrastructure and operation
- B7 - Design and build new off-site centralised sanitation systems in city expansion areas
- B8 - Design and build new water supply and sanitation systems suitable for each of the 15 small islands

Select your priorities using the dropdown menus below

List those interventions that score x or x benefit value for selected sectors

Sectorial Focus
All

List those interventions that are delivered in the timeframe selected

Timeframe Focus
All

List those interventions that match the selected complexity score

Implementation Complexity
All

List those interventions that match the selection

City Shaping or City Enabling
All

List those interventions that match the selected private investment attractiveness score

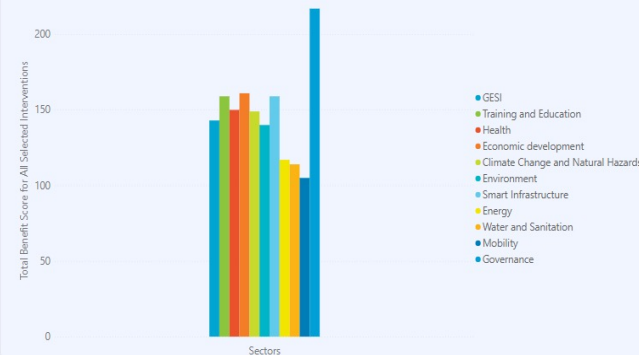
Private Investment Attractiveness
All

List those interventions that are selected

Manual Intervention Selection
All

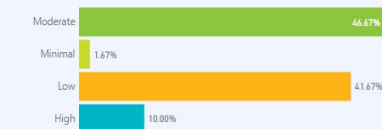
Total Benefit Value

Total Benefit Score for All Selected Interventions



Implementation Complexity

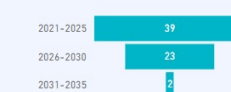
% of the Interventions that Score Low, Moderate, Medium, High and Very High



City Government Ranking

Time Frame

Number of Interventions in each Time Frame



City Shaping or City Enabling



Private Investment Attractiveness

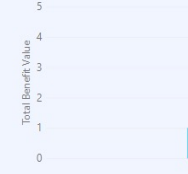


Individual Intervention Contribution

Intervention Selection
B12 - Establish digital asset management sys...

[Link to Intervention Page](#)

Individual Benefit Value



Complexity
Moderate

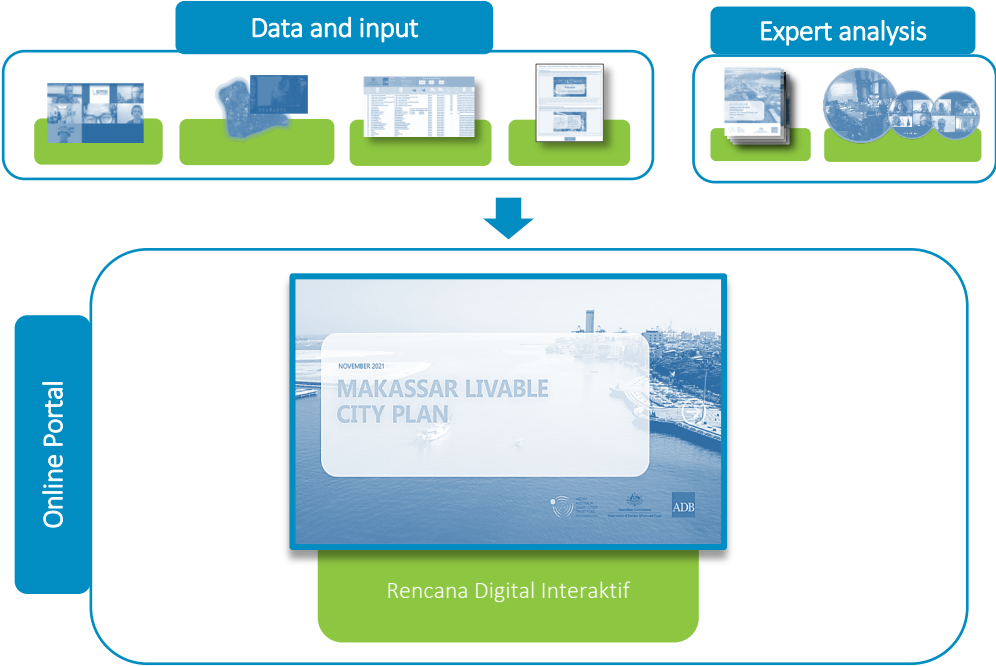
Time Frame
2026-2030

Private Investment Attractiveness
Not Attractive

City Shaping vs City Enabling
City Shaping

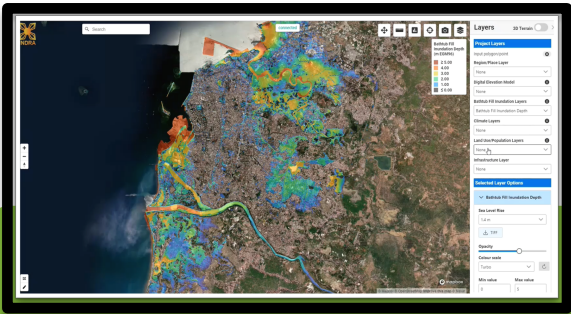
Makassar Livable City Plan:
A tool for prioritising smart and livable interventions

Digital Tools

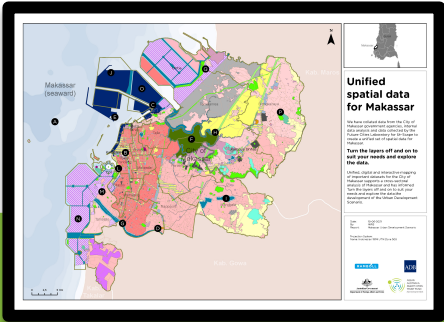


Digital Tools

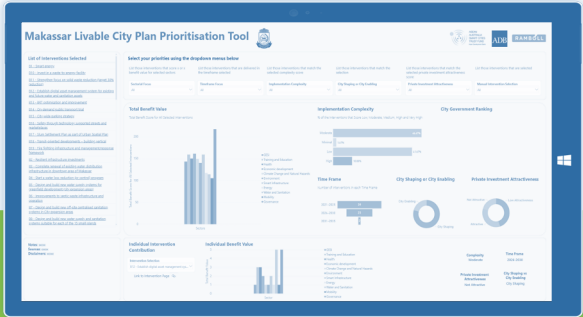
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Digital Climate Resilience Platform



Unified Spatial Data



Intervention Prioritisation Tool



Stakeholder Engagement Dashboard

Citizen Engagement Dashboard



Stakeholder Survey Interface

What is important for you when we plan the future transportation in Makassar?

	1	2	3	4	5
Provision of transport services	☐	☐	☐	☒	☐
The quality of services	☐	☐	☐	☒	☐
Costs and convenience	☐	☐	☐	☐	☒

How likely are you to participate in the survey?

PERSONA WORKSHEET

NAME: _____

AGE: _____

Gender: ☐ Male ☐ Female

Location: _____

Income: _____

Education: _____

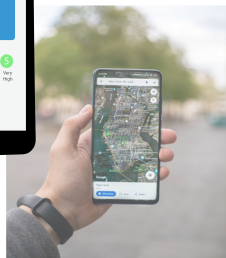
Occupation: _____

Phone Number: _____

Email: _____

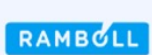
Address: _____

Signature: _____

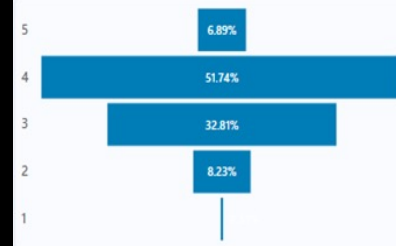


Digital Survey and
Geo-localised data

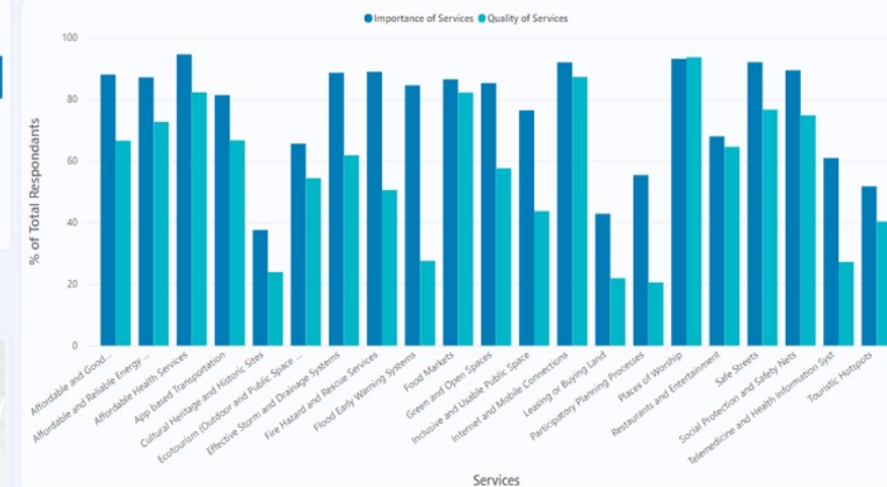
Makassar Citizen Engagement Dashboard



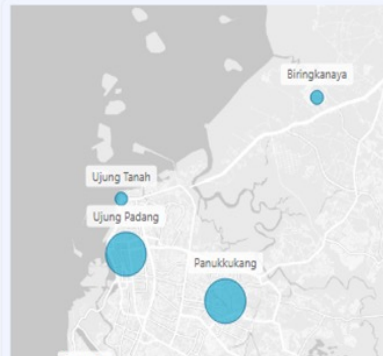
Citizen Overall Satisfaction



Services Gap Analysis



Locations



Selection Tool

Gender: ☐ Female ☐ Male

Location: ☐ Biringkanaya ☐ Panukukang ☐ Tamalate ☐ Ujung Padang

Age: ☐ (a) < 18 ☐ (b) 18 - 24 ☐ (c) 25 - 34 ☐ (d) 35 - 44

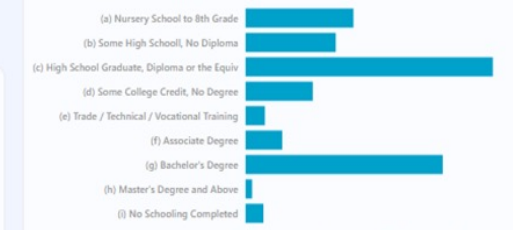
Education: ☐ (a) Nursery School to 8th Grade ☐ (b) Some High School, No Diploma ☐ (c) High School Graduate, Diploma or the Equiv ☐ (d) Some College Credit, No Degree ☐ (e) Trade / Technical / Vocational Training ☐ (f) Associate Degree ☐ (g) Bachelor's Degree ☐ (h) Master's Degree and Above ☐ (i) No Schooling Completed

Income before tax (per month in IDR): ☐ (a) 0 - 999,999 ☐ (b) 1,000,000 - 1,999,999 ☐ (c) 2,000,000 - 4,999,999 ☐ (d) 5,000,000 - 9,999,999 ☐ (e) 10,000,000 - 19,999,999 ☐ (f) 20,000,000 - 24,999,999 ☐ (g) 25,000,000 - 49,999,999 ☐ (h) > 50,000,000 ☐ (i) Prefer Not to Answer

Demographics

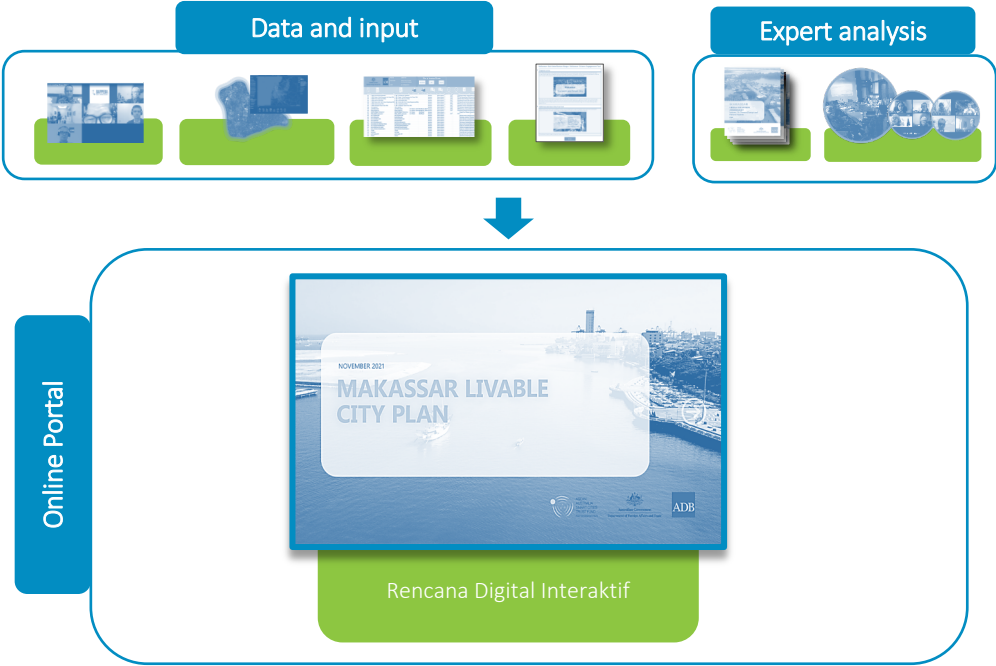


Education



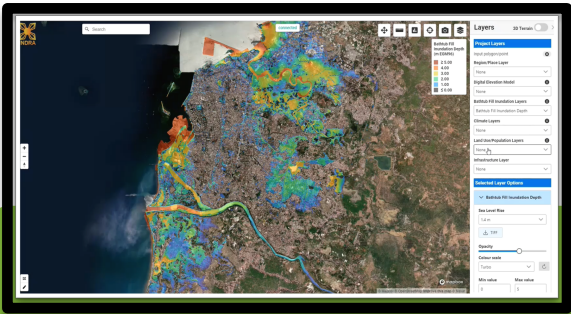
Makassar Livable City Plan:
Stakeholder Engagement Pilot

Digital Tools

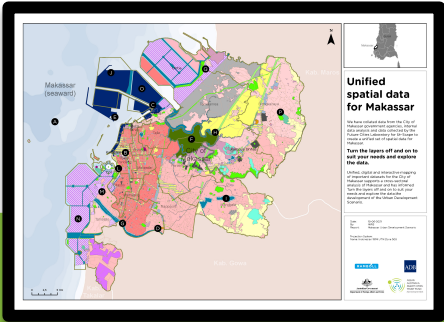


Digital Tools

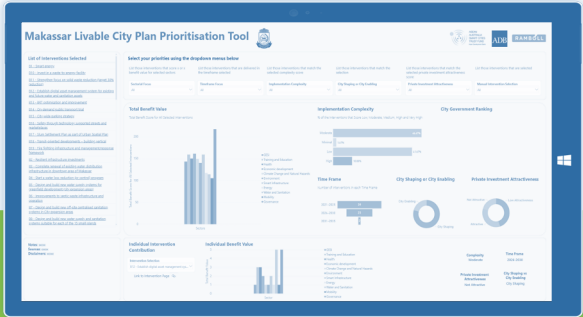
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Digital Climate Resilience Platform



Unified Spatial Data



Intervention Prioritisation Tool

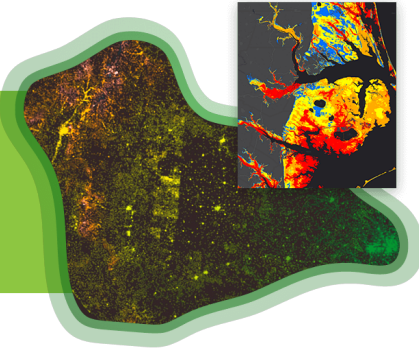


Stakeholder Engagement Dashboard

Unified Spatial Data



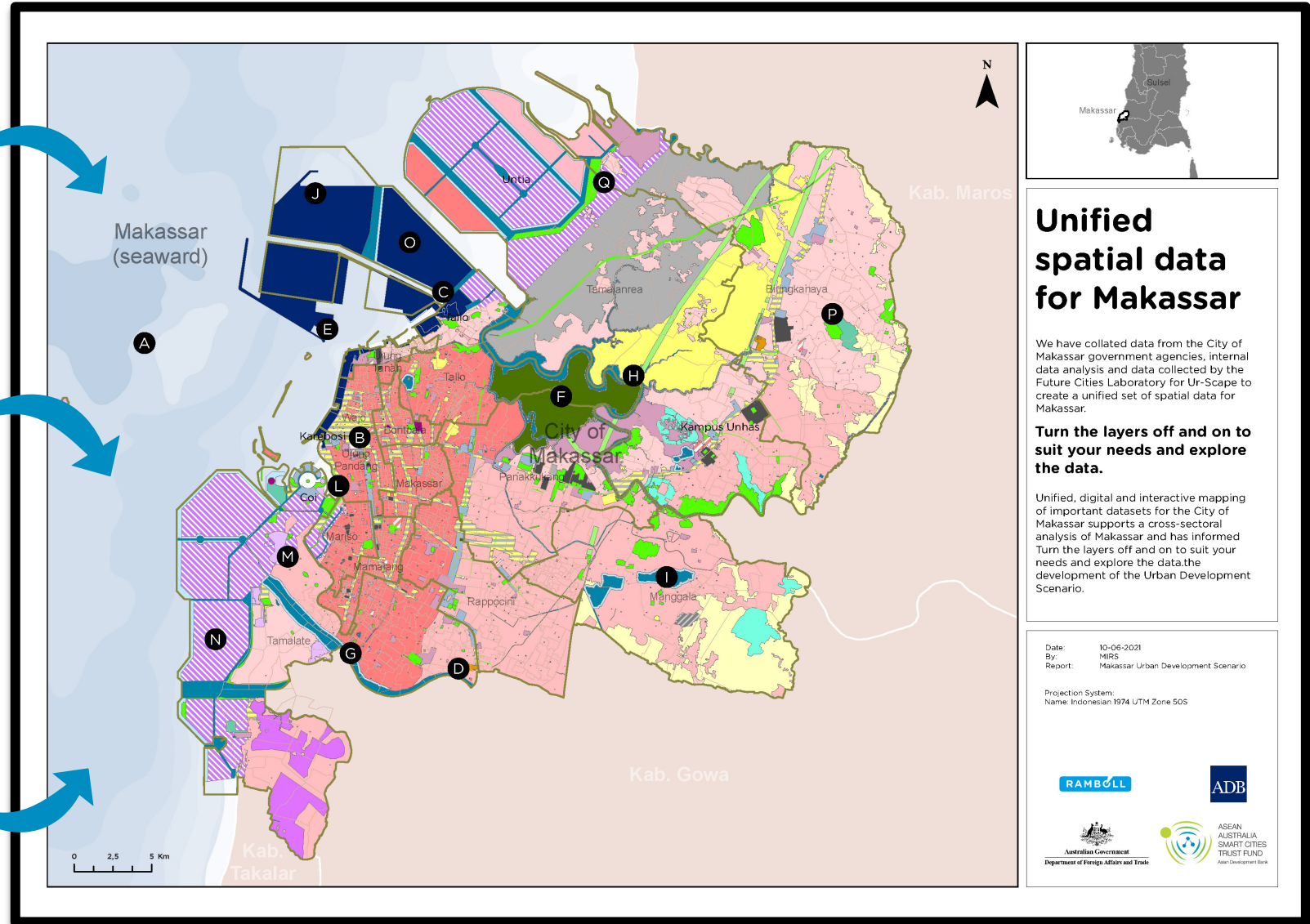
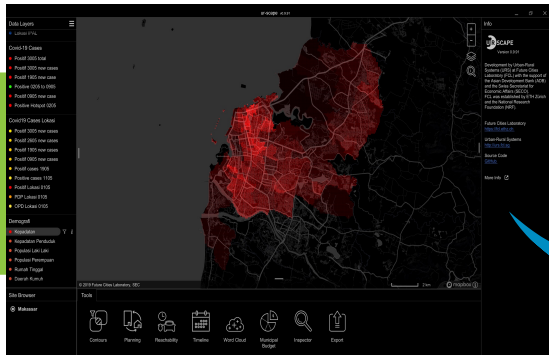
Spatial Analysis



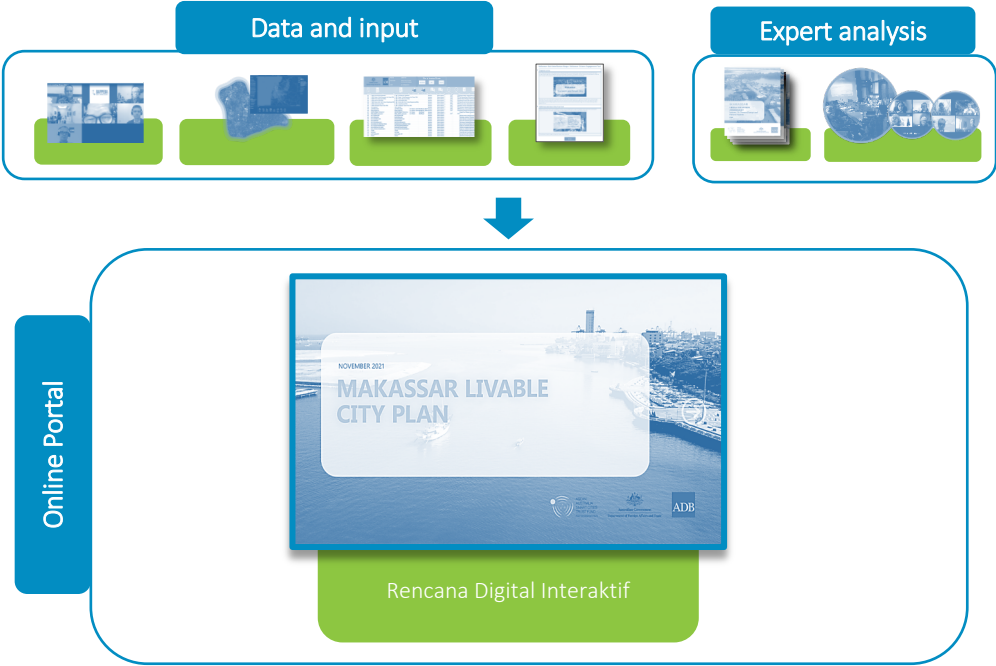
Accessibility



Ur-scape

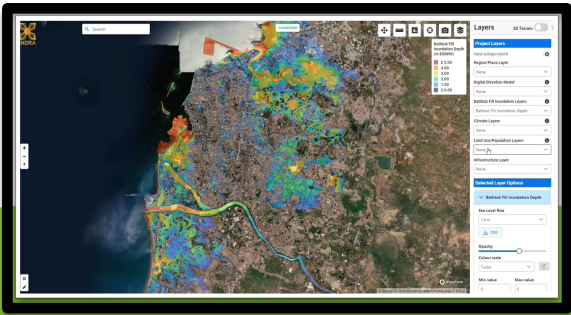


Digital Tools

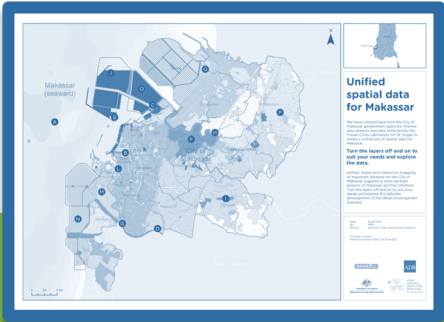


Digital Tools

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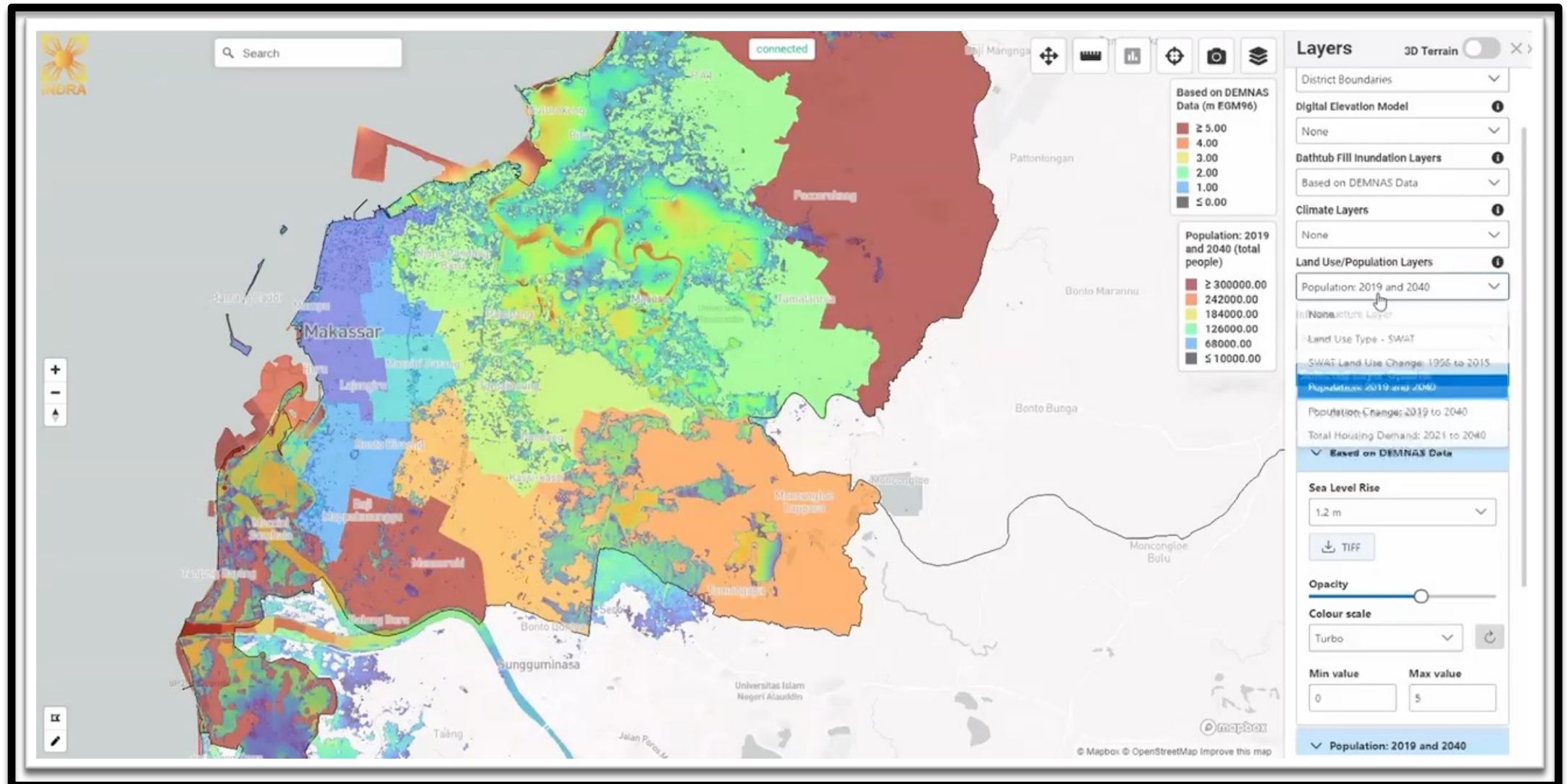


Intervention Prioritisation Tool

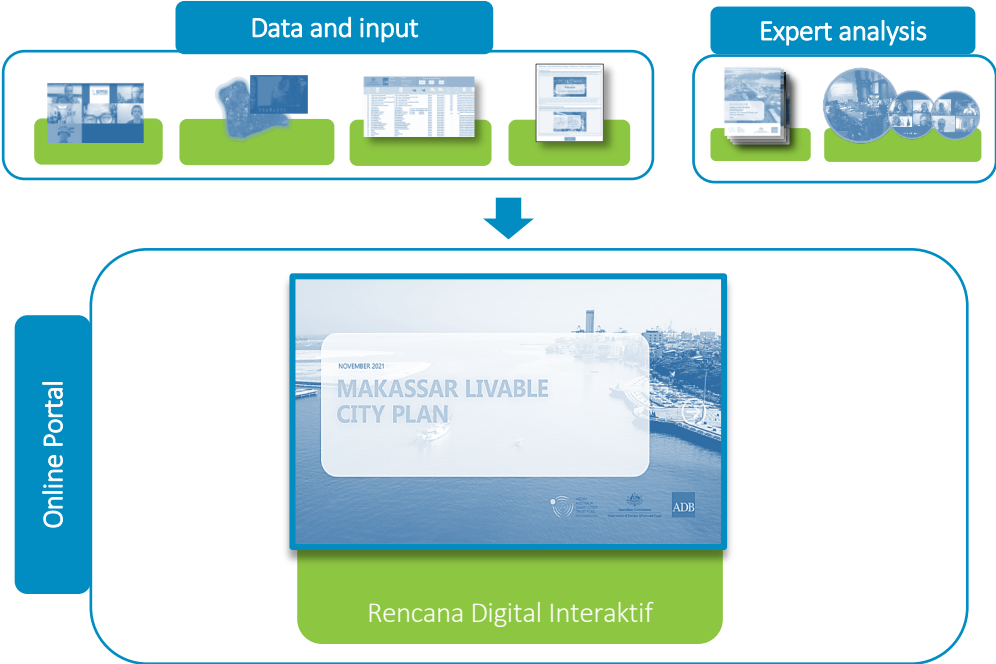


Stakeholder Engagement Dashboard

Digital Climate Resilience Platform

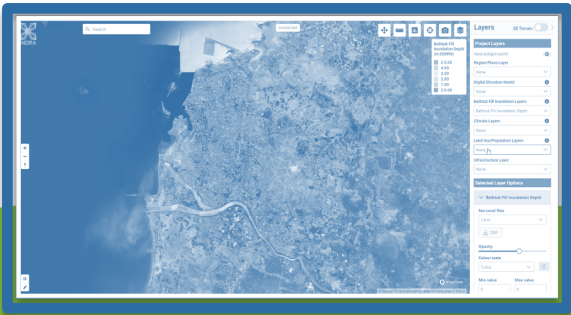


Makassar Livable City Plan

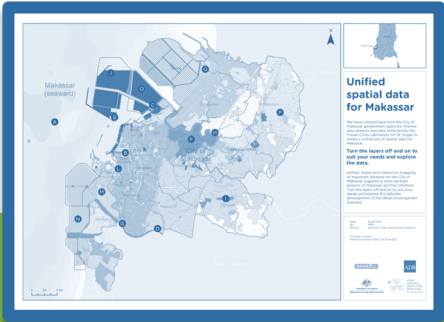


Digital Tools

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Digital Climate Resilience Platform



Unified Spatial Data

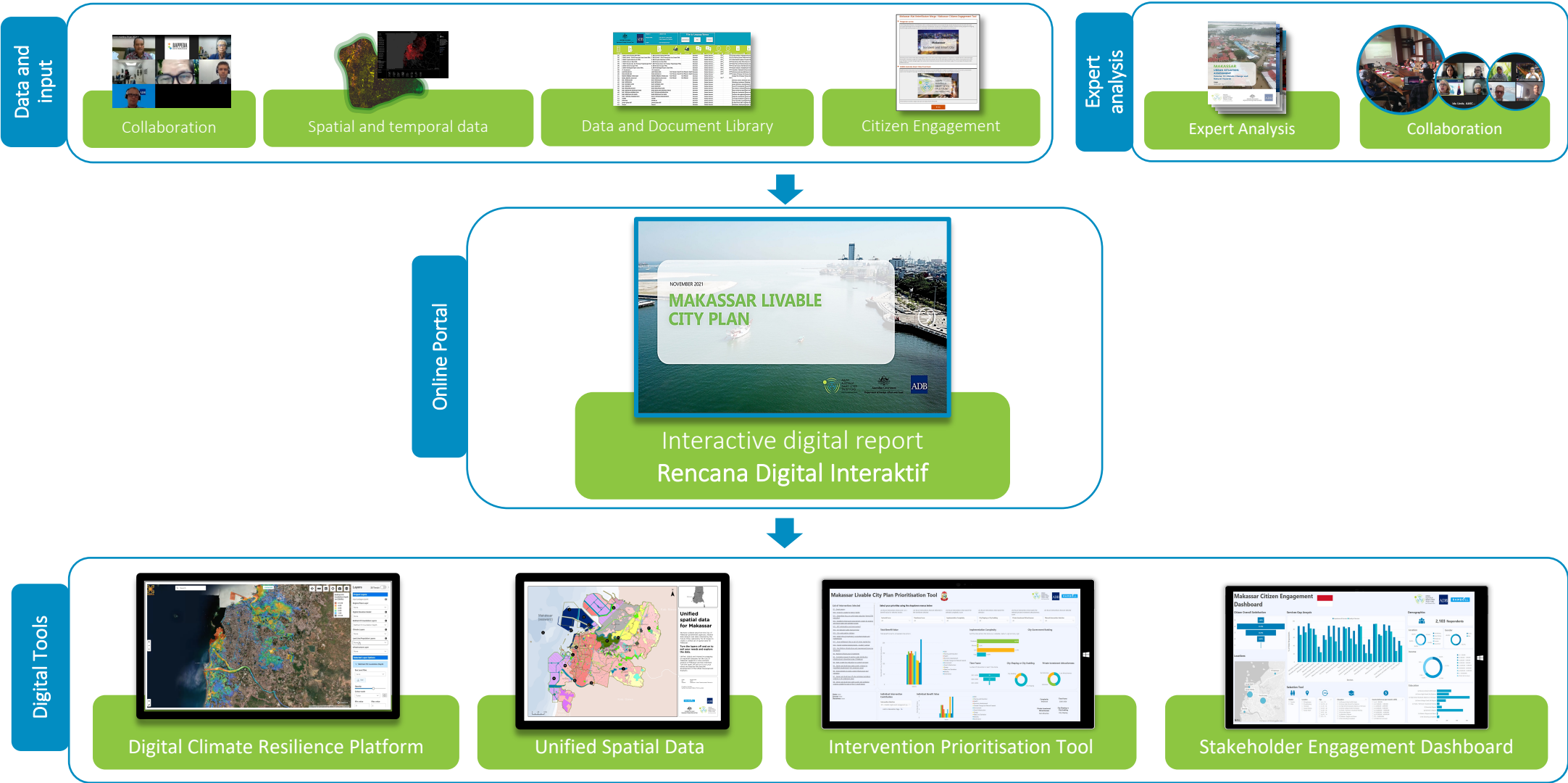


Intervention Prioritisation Tool



Stakeholder Engagement Dashboard

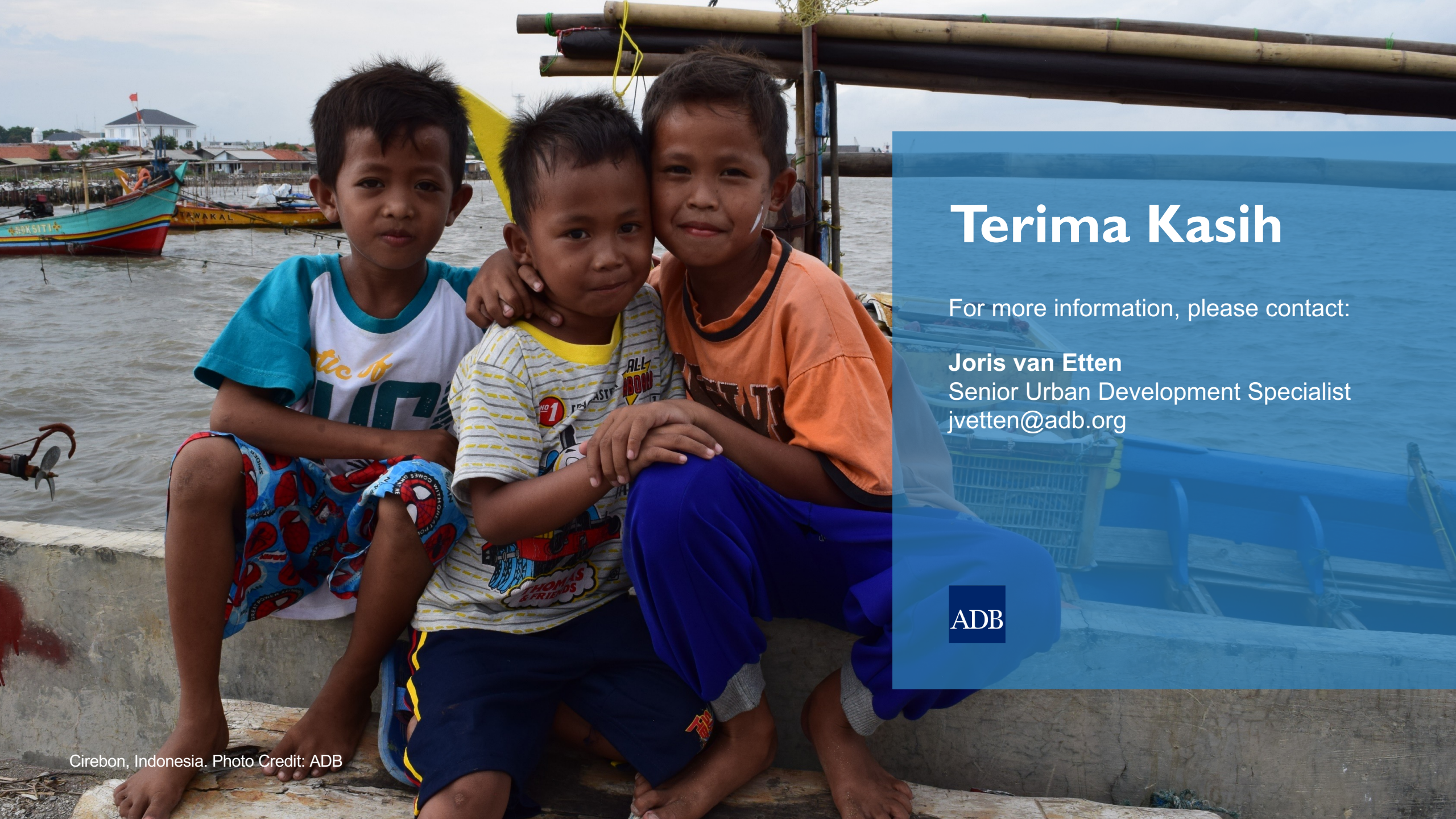
Makassar Livable City Plan



Next practice:
'Smartness' is
not solely about
the technology

Smart is
about
putting
people
first.





Terima Kasih

For more information, please contact:

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jvetten@adb.org

ADB