



MADRID

Digital Building Permits in Madrid Municipality

Juan Carlos Álvarez Rodríguez

DIRECTOR GENERAL FOR BUILDING

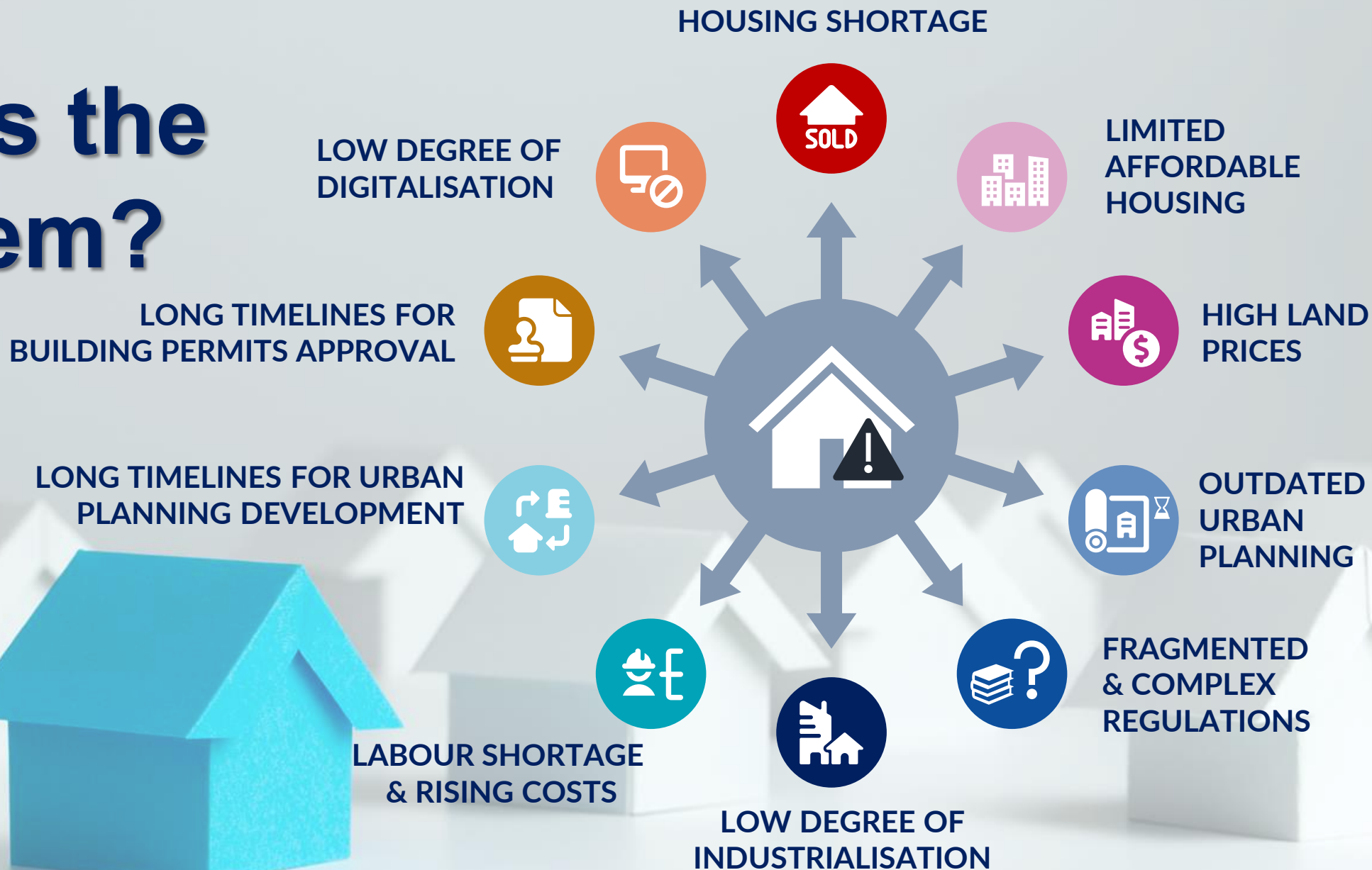
dgedificacion@madrid.es



**“Houston,
we’ve a problem”**

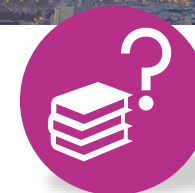


What's the problem?



What do we need?

SIMPLIFICAR LA NORMATIVA URBANÍSTICA
Simplify urban planning rules



PROYECTOS DE MAYOR CALIDAD Y VIABILIDAD TÉCNICA
Projects of higher quality & technical feasibility



AGILIZAR LA CONCESIÓN DE LICENCIAS DE OBRA
Accelerate building permits approval



ACELERAR LA CONSTRUCCIÓN Y ENTREGA DE VIVIENDAS
Accelerate construction & delivery of housings



MÁS EFICIENCIA, TRANSPARENCIA Y SEGURIDAD JURÍDICA
Greater efficiency, transparency & legal certainty



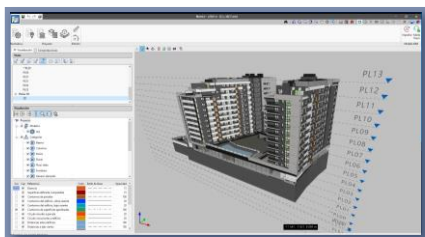
The solution



The journey

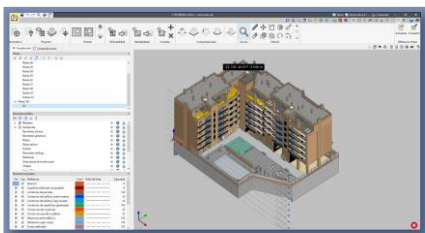
Public-private partnership

1 — 2020: First BIM Agreement



Partnership with ASPRIMA (Madrid's Association of Real Estate Developers) to test BIM-based verification tools

2 — October 2022: Second BIM Agreement



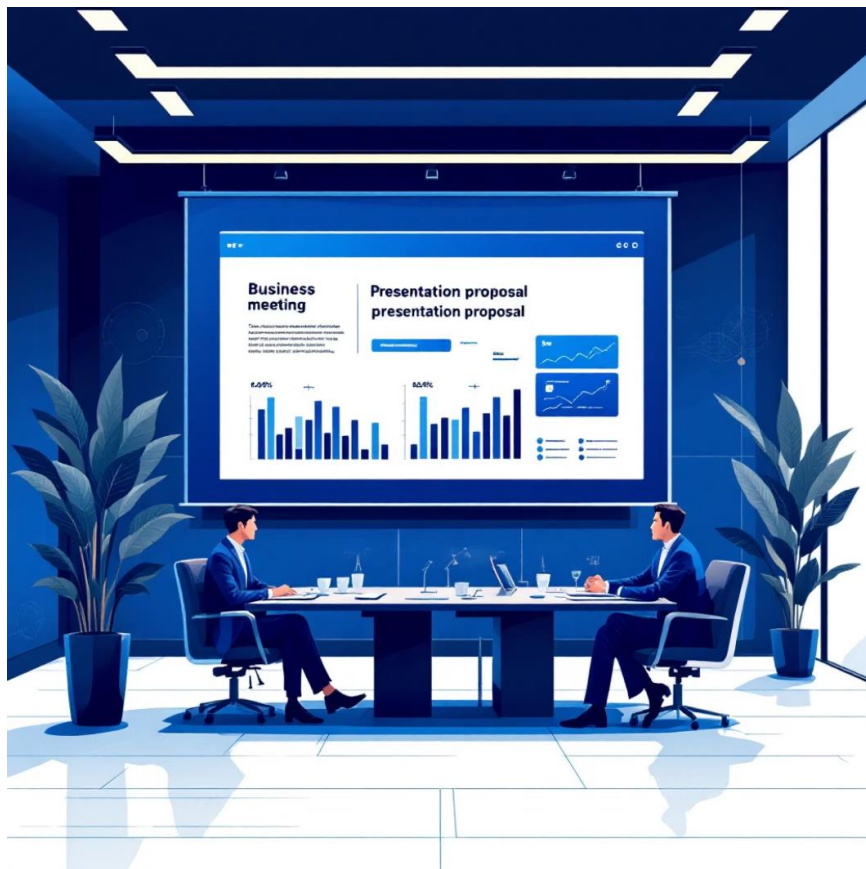
Following new regulation approval, expanded collaboration with ASPRIMA focusing on essential urban requirements.

3 — Key Finding 70% Time saving



The journey

Open Market Consultation



Seeking innovation
through collaboration

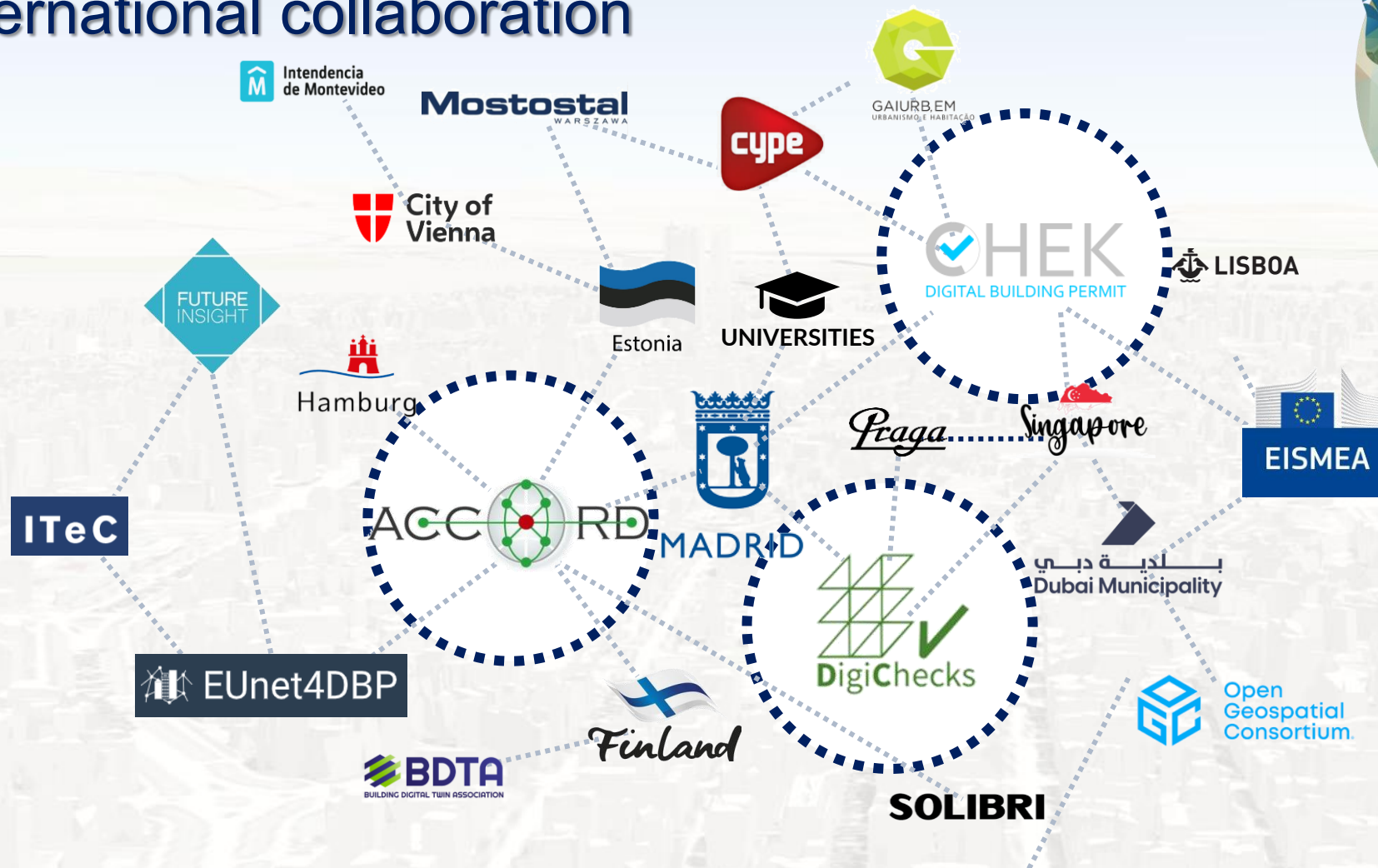
Outstanding Response

9 Companies Proposals



The journey

International collaboration

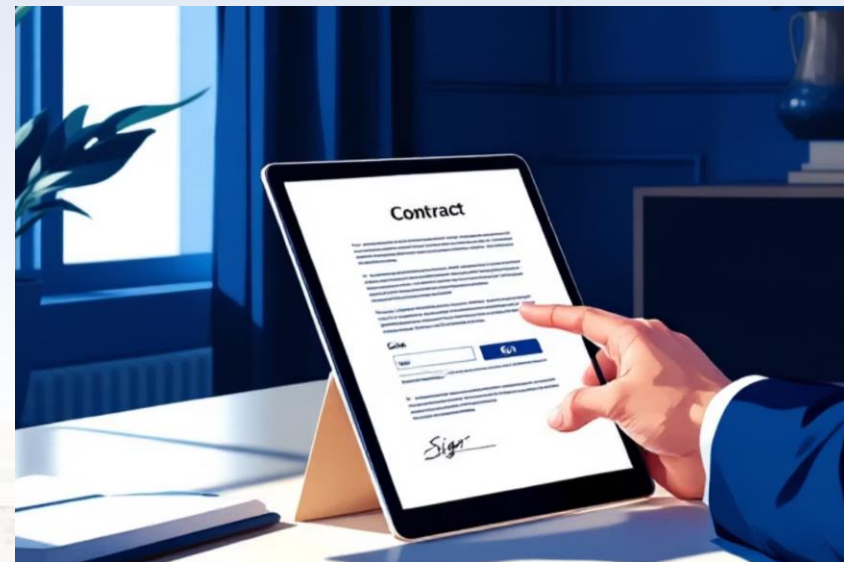


The Madrid-DBP contract

8 M€ 4+1 years



Start January 2026



COMPONENT 1 *SERVICE 1*

PLATFORM CREATION. CORE
SYSTEM DEVELOPMENT AND
ARCHITECTURE



COMPONENT 2 *SERVICE 1*

SUPPORT AND LICENSING.
MAINTENANCE SERVICES



COMPONENT 3 *SERVICE 1*

EVOLUTION AND UPDATES.
CONTINUOUS IMPROVEMENT



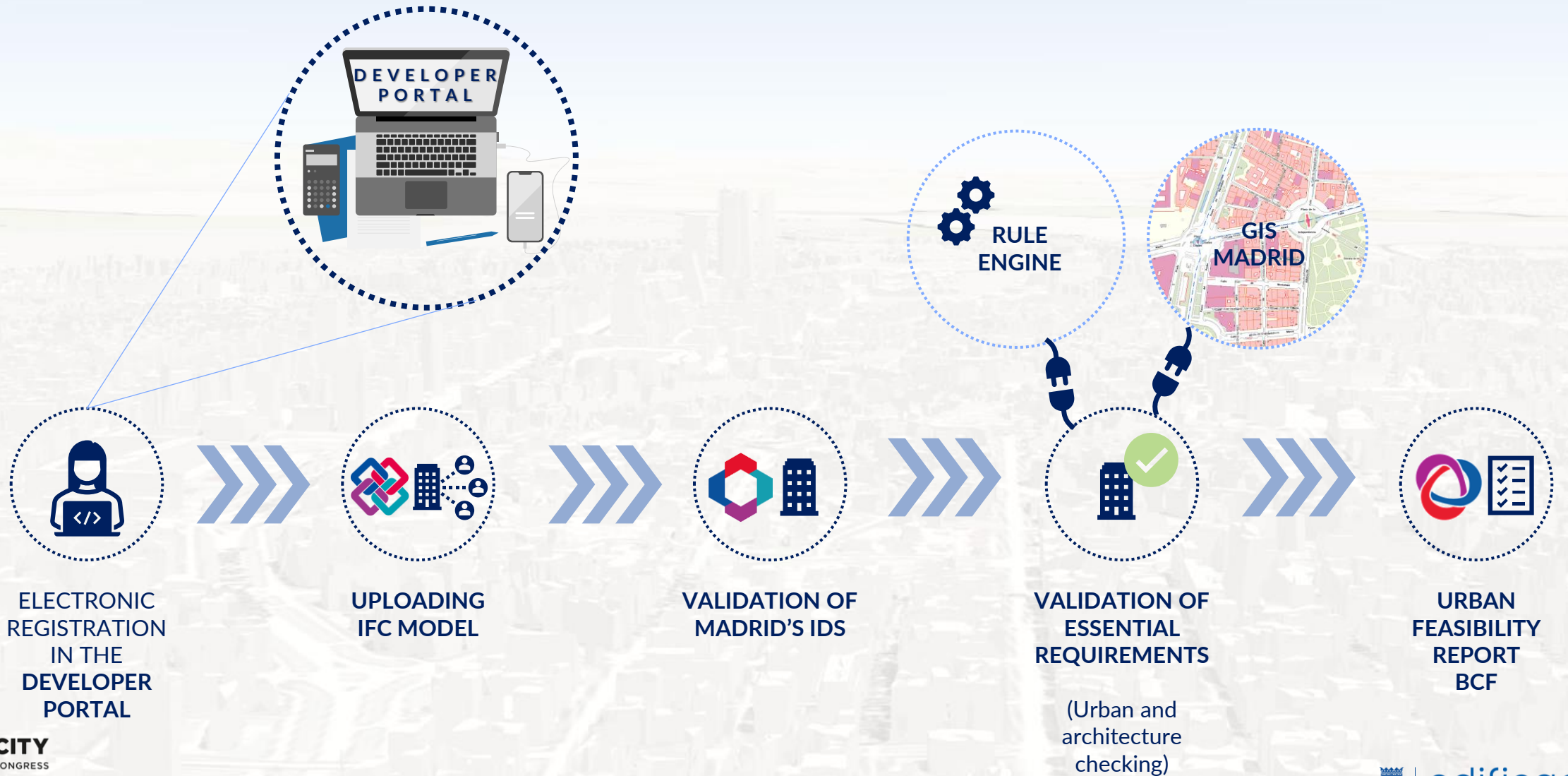
COMPONENT 4 *SERVICE 1*

PLATFORM ASSISTANCE

The Madrid-DBP characteristics



The Madrid-DBP process



Integration Madrid-DBP's BIM models into the Digital Twin

The screenshot displays the 'geoportal' web application interface. The main view is a 3D perspective rendering of a city's BIM model, showing various building footprints and structures in a light gray color. The interface includes a top navigation bar with the 'geoportal' logo and a search bar. On the left side, there is a 'Comprobaciones' (Checks) panel with a table for verifying different parameters.

Comprobación	Revisado	Comentario
✓ Altura de pla...	☐	☐
✓ Altura máxi...	☐	☐
✓ Altura libre ...	☐	☐
✓ Altura libre ...	☐	☐
✓ Altura libre ...	☐	☐
✓ Altura libre ...	☐	☐
✓ Distancia mí...	☐	☐
✓ Fondo edific...	☐	☐
Retranqueo ...	☐	☐
Retranqueo ...	☐	☐
Retranqueo ...	☐	☐
Retranqueo ...	☐	☐
Retranqueo ...	☐	☐
Retranqueo ...	☐	☐
✓ Coeficiente ...	☐	☐
✓ Superficie m...	☐	☐
Saliente máxi...	☐	☐
Saliente máxi...	☐	☐
Saliente máxi...	☐	☐
Saliente máxi...	☐	☐
Saliente máxi...	☐	☐
✓ Saliente máxi...	☐	☐
✓ Altura mínim...	☐	☐
? Superficie úti...	☐	☐

Below the checklist, there is a 'Vivienda' (Residence) section with a table showing project details:

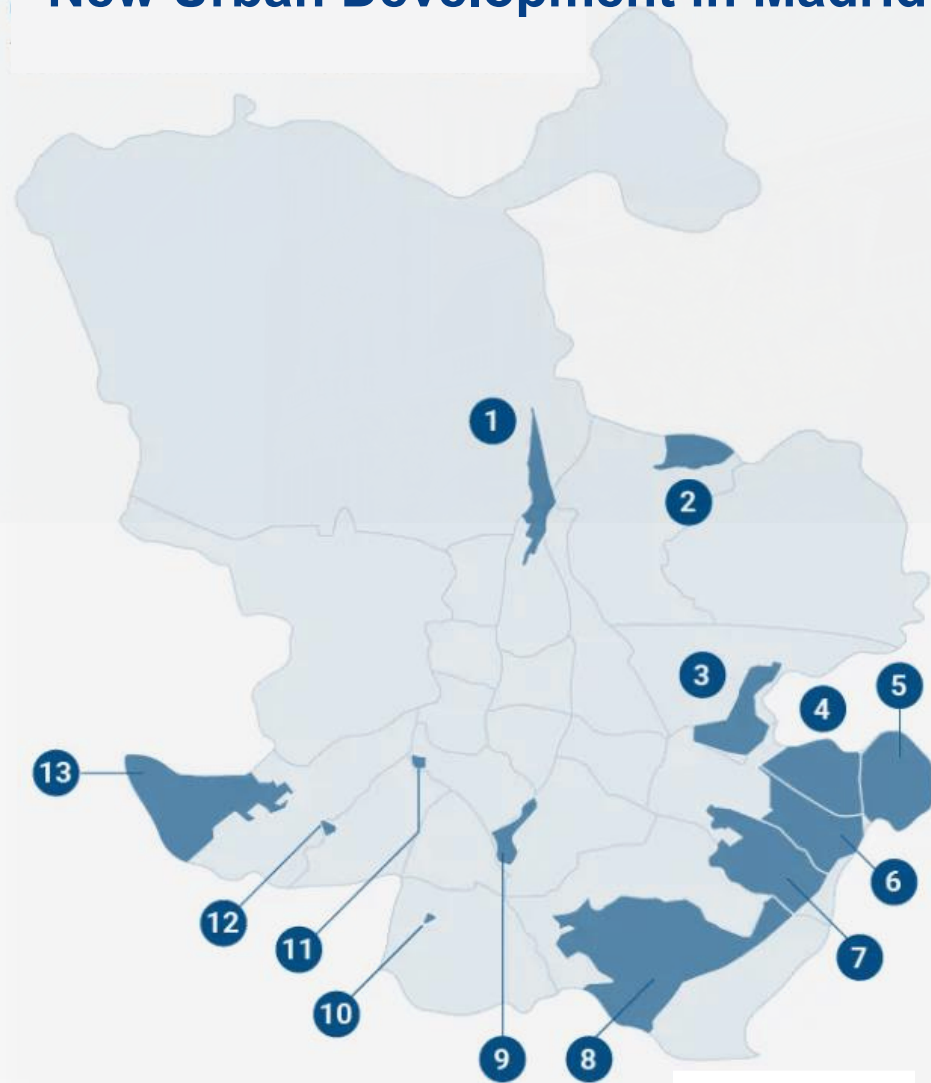
Estado	Referencia	Proyecto	Norma
✓		5573.62	≤ 5660.69 m ²
	GA VV P...	0.00	m ²
	GA VV P...	0.00	m ²
	GA VV P...	0.00	m ²
	GA VV P...	0.00	m ²
	GA VV P...	0.00	m ²
	VV POR: ...	0.00	m ²
	VV POR: ...	0.00	m ²
	VV POR: ...	0.00	m ²
	VV POR: ...	0.00	m ²
	VV POR: ...	0.00	m ²
	VV POR: ...	0.00	m ²

The bottom of the screen shows a Windows taskbar with various application icons and a system clock indicating 16:51 on 20/02/2024.

>170.000 new dwelling await Madrid-DBP

	Nº dwellings
1. Madrid Nuevo Norte	11.241
2. La Solana de Valdebebas (Hortaleza)	1.393
3. Nueva Centralidad del Este (San Blas- Canillejas)	20.000
4. El Cañaveral (Vicálvaro)	14.000
5. Los Cerros (Vicálvaro)	14.276
6. Los Ahijones (Vicálvaro)	19.000
7. Los Berrocales (Vicálvaro)	22.285
8. Valdecarros (Villa de Vallecas)	51.600
9. Madrid Nuevo Sur- Abroñigal	3.000
10. Arroyo de Butarque (Villaverde)	420
11. Ribera del Calderón (Arganzuela)	1.312
12. Antigua cárcel de Carabanchel (Carabanchel)	640
13. Operación Campamento	12.000

New Urban Development in Madrid



FUENTE: El Mundo

GRÁFICO: Carlos G. Kindelán



They are waiting for it



Capital
Digital



MADRID

in

edificacion



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Thank you!



edificacion

SMARTCITY
EXPO WORLD CONGRESS

