

United Nations Group of Experts on Geographical Names



INTEGRATING GEOGRAPHICAL NAMES

2022 Meeting of the UN/LOCODE Advisory Group - 28 June 2022

Mark Iliffe Global Geospatial Information Management Section Environmental Statistics and Geospatial Information Branch UN Statistics Division, UNHQ

Overall vision of UNGEGN World Geographic Names Database Why are we doing this?



UNGEGN is mandated by the Economic and Social Council as one of its nine Subsidiary Bodies – this is implementing UNGEGN Decision 2/2019/2



Position UNGEGN as the center of excellence for authoritative, comparable, and high-quality geographic names/toponyms



Provide a dramatically improved platform for collating toponyms by end of 2022



Enhance visibility and use of toponymic data, irrespective of language, from across the UN system and globally



Focus on data to support evidence-based action



Increase visibility of UNGEGN, its intergovernmental role and its work



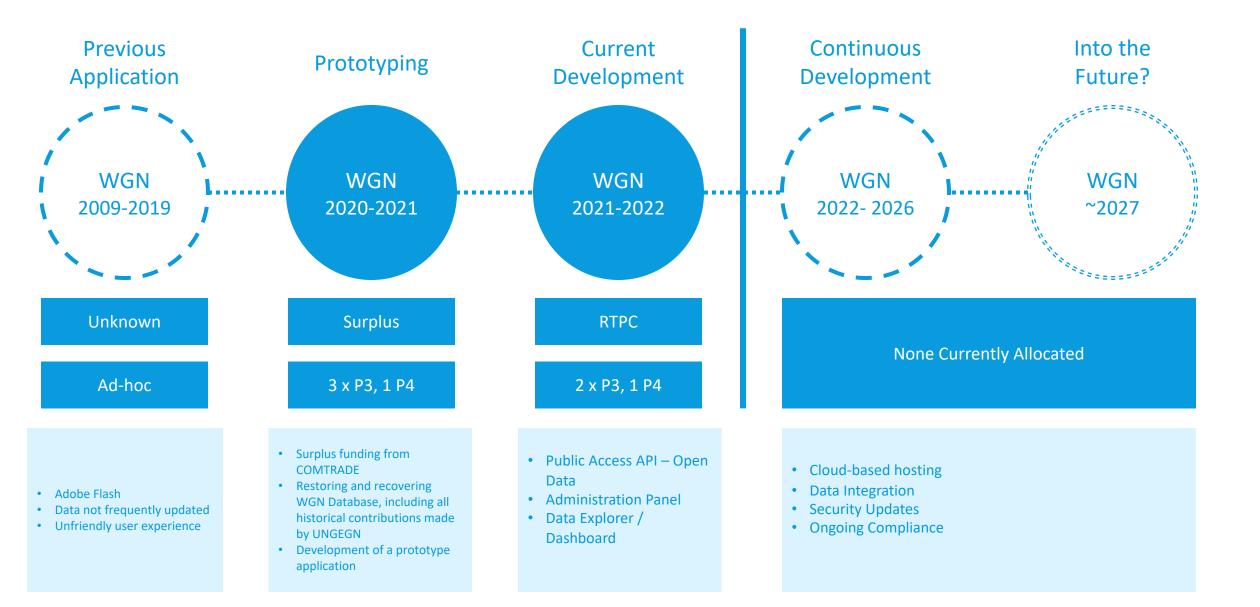
Basic Data Model / Geographic Extent

Authoritative, multi-lingual information on:

- All Countries
- All cities with a population of 100k or higher

	Data Header	Arabic	Chinese	English	French	Russian	Spanish	Endonyms	\$	
Country	 M49:450 SKOS ISO3: MDG Bounding Box / Coordinates SKOS MOS 	مدغشقر	马达加斯 加	Madagasca r		Мадагаска р	Madagasca r	Malagasy	Madagasikara	Repoblikan'i Madagasikara
City		أنتاناناريفو	塔那纳利佛	Antananarivo	Antananarivo	Антананариву	Antananarivo	Antananarivo	Antananarivo	

Technical Development



WGN System Components

2

3

Position the UNGEGN as a global leader in authoritative geographical names

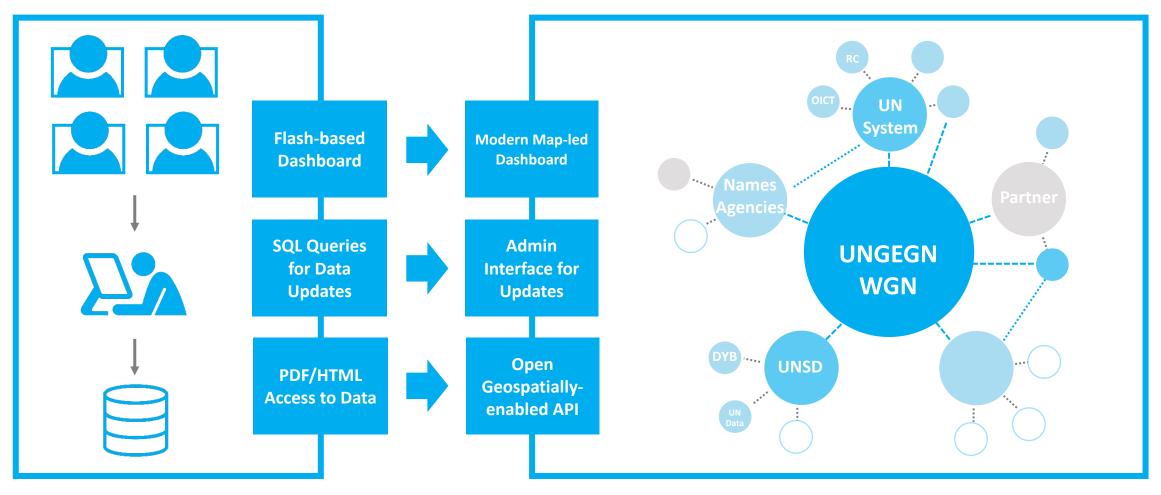
WGN Dashboard - Publicly Accessible Dashboard

WGN API - Publicly Accessible, read-only geoJSON, API

WGN Administration System – User Interface for UNGEGN Secretariat



Previous World Geographic Names Database vs the modernized WGN



WGN 2009 Web 1.0 Technology

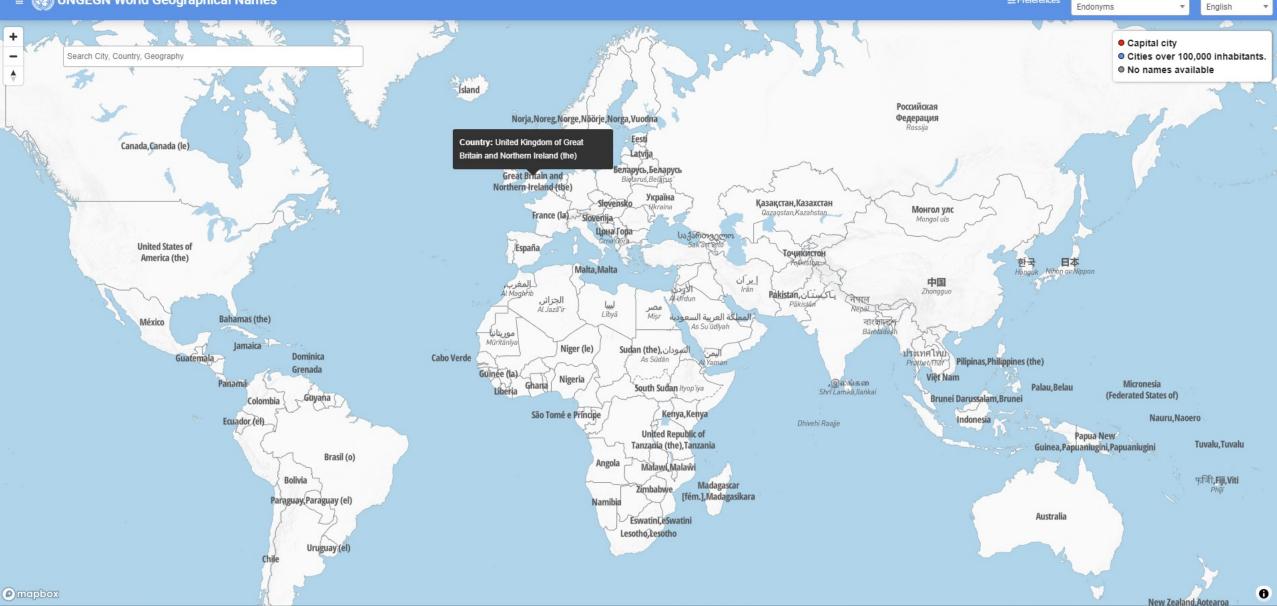
WGN 2022

Automated processes and high capacity





■ 😡 UNGEGN World Geographical Names



Toponym

Interface Languages

Dominica

Grenada

Bolivia

UNGEGN World Geographical Names

Search City, Country, Geography

The Basemap is provided by OICT from their "UN Clear Map" product. Provided for UNGEGN the basemap is provided without labels. In showing **UNGEGN's Authoritative labels** the map remains in compliance with ST/AI/189

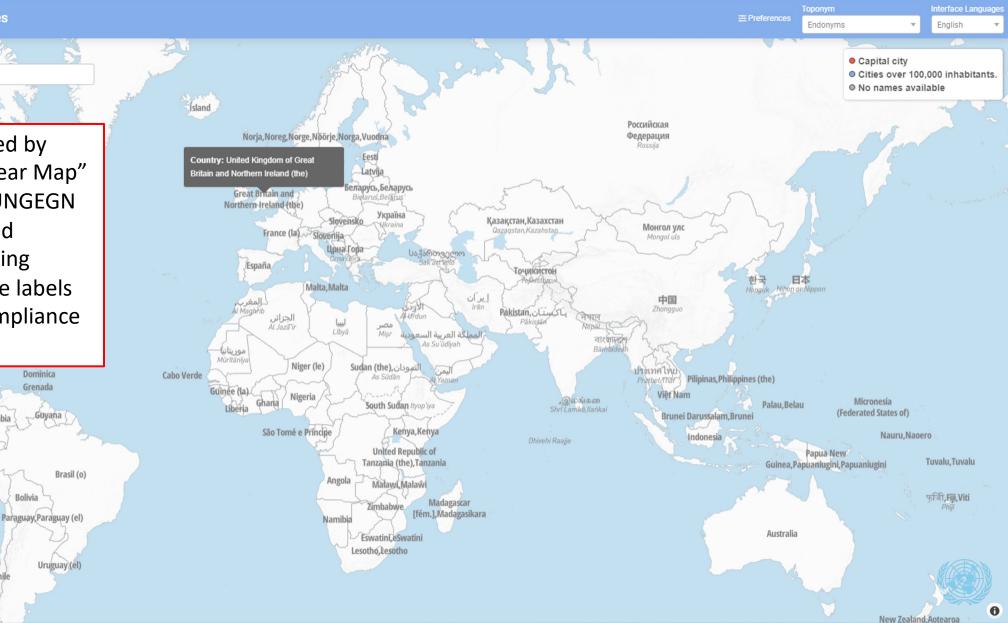
Guatemala

Panamá

Ecuador (ef)

Colombi

Chile



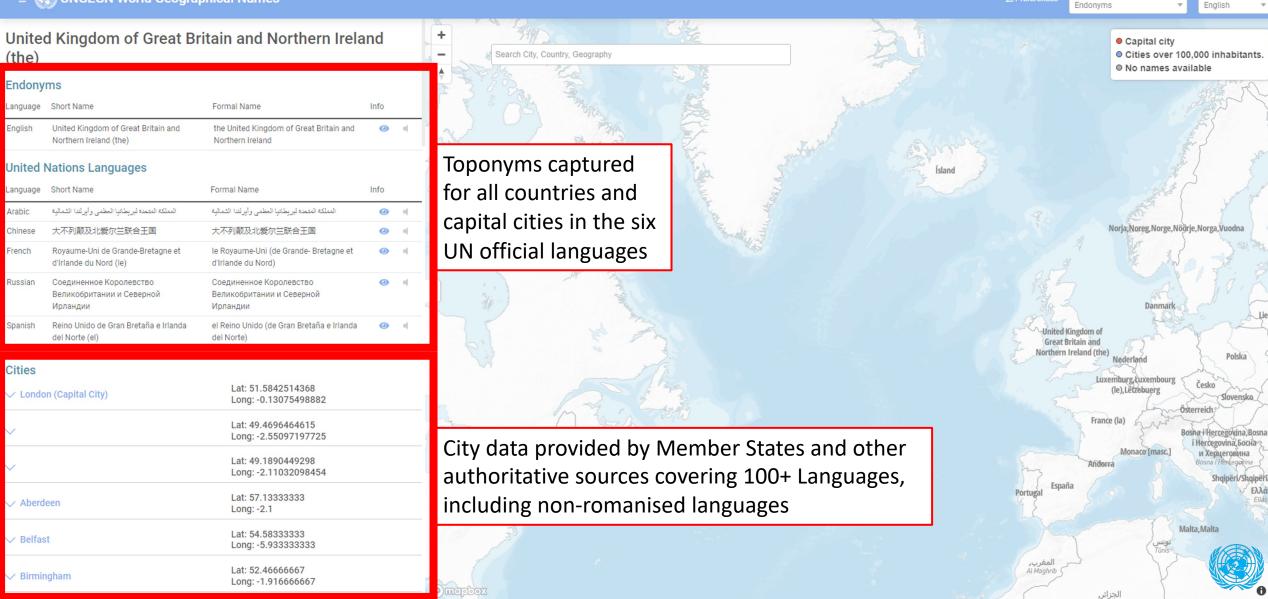


UNGEGN World Geographical Names



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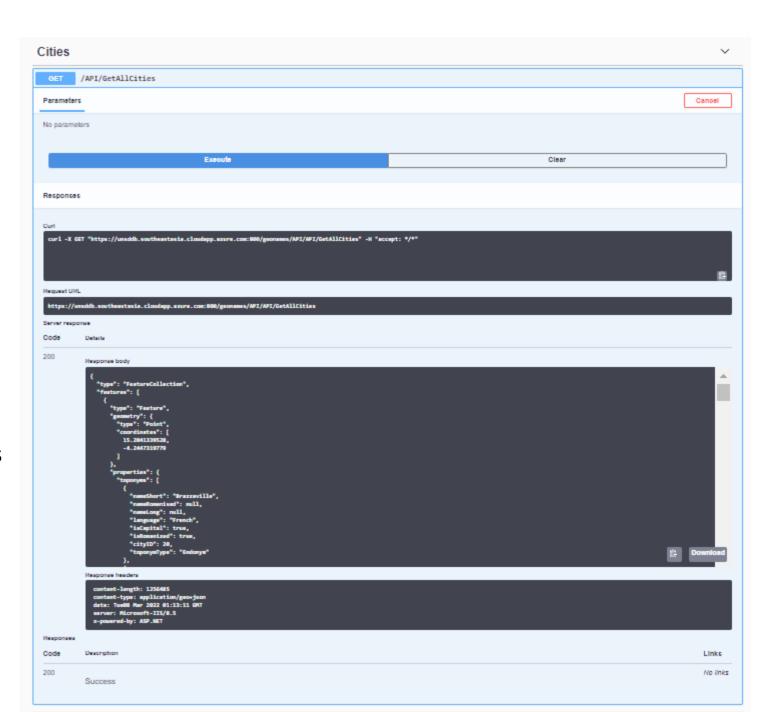
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The WGN API:

- An open access, RESTful API, provides readonly access to the WGN database, through several API endpoints (Cities – via WGN Unique City ID, Countries – via M49 code, Languages, Romanisation Systems, and other endpoints)
- 2. Documented via Swagger's Interface Description Language
- **3.** Provides Standardised GeoJSON. Can be downloaded as a standalone file or be consumed into Excel or other GIS applications
- Meets the highest requirements of the SG's Data Strategy, as data is available as Open Access, publicly, without restriction in machine readable formats.





Hello prasad.shikhare@trigyn.com! Log out

+ Add City

Cities

			Search by City V	Search Back to Full List
Country Name	City Name - [Romanized Name]	Is Captial?	Coordinates Source	Actions
Ukraine	Kyiv		United Nations Cartographic Section	1 🕐 💼
Belarus	Minsk		United Nations Cartographic Section	1 🕑 💼
Republic of Moldova (the)	Chisinau		United Nations Cartographic Section	i 🖉 🖉
Romania	Bucharest		United Nations Cartographic Section	 Image: Image: Ima
Finland	Helsinki		United Nations Cartographic Section	 Image: Image: Ima
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North Macedonia	Skopje		United Nations Cartographic Section	 Image: Image: Ima
Bulgaria	Sofia		United Nations Cartographic Section	i 🖉 🖉
Serbia	Belgrade		United Nations Cartographic Section	 Image: Image: Ima
Poland	Warsaw		United Nations Cartographic Section	
Ireland	Dublin		United Nations Cartographic Section	 Image: Image: Ima
Germany	Berlin		United Nations Cartographic Section	 Image: Image: Ima
Denmark	Copenhagen		United Nations Cartographic Section	 Image: Image: Ima
Albania	Tirana		United Nations Cartographic Section	 Image: Image: Ima
Italy	Rome		UNGEGN	i 🖉 🖉
Andorra	Andorra la Vella		United Nations Cartographic Section	i 🖉 🖉
Bosnia and Herzegovina	Sarajevo		United Nations Cartographic Section	 Image: Image: Ima
Monaco	Monaco		United Nations Cartographic Section	i 🖉 🖉
Croatia	Zagreb		United Nations Cartographic Section	 Image: Image: Ima
San Marino	San Marino		United Nations Cartographic Section	 Image: Image: Ima
Switzerland	Berne		United Nations Cartographic Section	i 🖉 🖉
Hungary	Budapest		United Nations Cartographic Section	1 💿 🛅
Slovenia	Ljubljana		United Nations Cartographic Section	1 💿 🛅
Austria	Vienna		United Nations Cartographic Section	i 🖉 🖉



WGN Administration System

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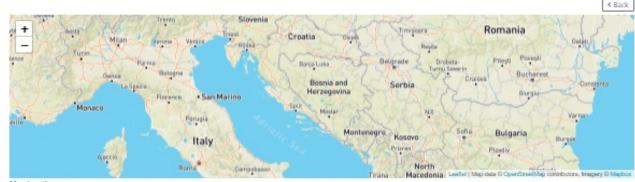
Cities			Search Across all relevant data	Search by City	+ Add City Search Back to Full List
Country Name	City Name - [Romanized Name]	Is Captial?	all relevant data		Actions
Ukraine	Kyiv		United Nations Cartographic Section		۵
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Latvia	Riga		United Nations Cartographic Section		/ ③ 💼
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WGN Administration System

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Map location

15.7364,42.564522,19.619699,45.276901

Historical Progression

went D890 : State Seceded From	D. Federal People's Republic of Yugoslands	Socialital Federal Republic of Yugoslavia		
Event D70 : State Seceded To			Republic of Boania and Herzegovina	Bosnia and Herzagovina

FootNotes

UN Member

Toponyms (Since 23-Nov-2021 - 08-Mar-2022)

Endonyms

Language	Short Name	Formal Name	Source
Bosnian	Bosna i Hercegovina	Bosna i Hercegovina	UNGEGN Technical reference manual for the standardization of geographical names
Croatian	Bosna i Hercegovina	Bosna i Hercegovina	UNGEGN Technical reference manual for the standardization of geographical names
Serbian	Босна и Херцеговина Bosna i Hercegovina	Босна и Херцеговина Bosna i Hercegovina	UNGEGN Technical reference manual for the standardization of geographical names

United Nations Languages

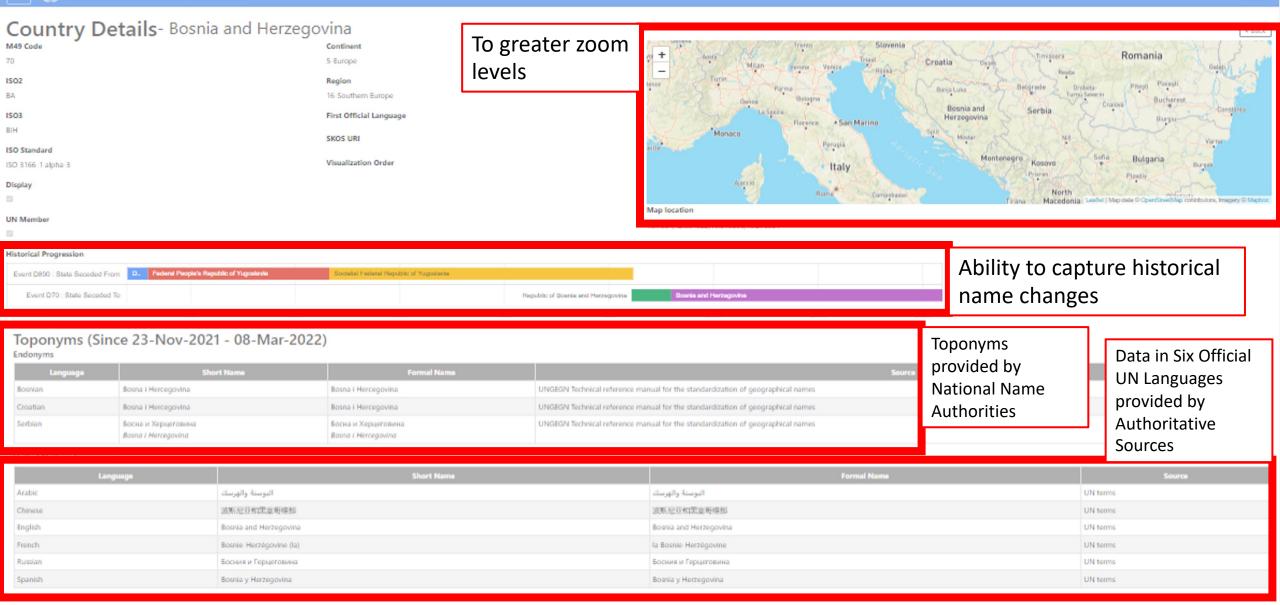
Language	Short Name	Formal Name	Source
Arabic	البوسنة والهرسك	البوسنة والهرسك	UN terms
Chinese	波斯尼亚和黑金哥维那	波斯尼亚和黑金哥维那	UN terms
English	Bosnia and Herzegovina	Bosnia and Herzegovina	UN terms
French	Bosnie Herzégovine (la)	la Bosnie Herzègovine	UN terms
Russian	Босния и Герцеговина	Босния и Герцеговина	UN terms
Spanish	Bosnia y Herzegovina	Bosnia y Herzegovina	UN terms

Log In



WGN Administration System

UNGEGN World Geographical Names





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Regions Romeniz Toponyn Manage Ur

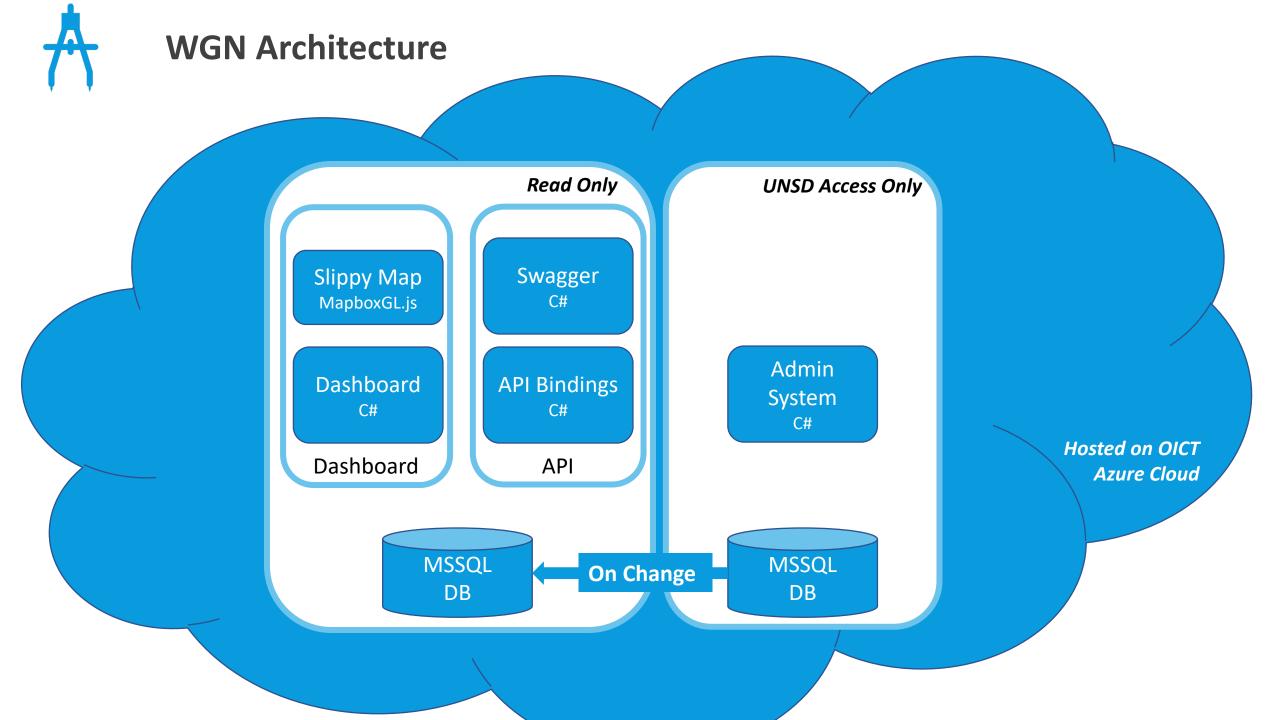
Transactik Divisions

Unification

Timeline Countries Cities Geographie

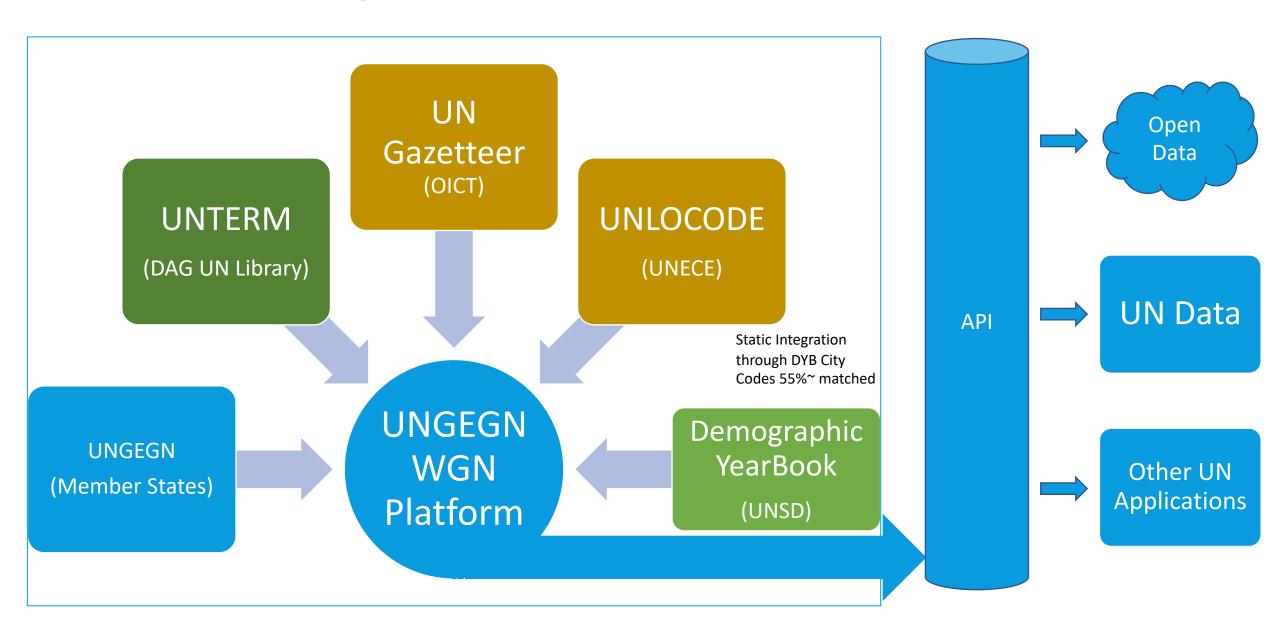
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*			
	 [Dashboard] To the WGN Dashboard 		
	 [City] To the "City" Tables 		
	 [Country] To the "Country" tables 		
	 [Geography] To the "Geography" tables 		
	 [Print] – Print the tables 		
	 [Settings] – Add/Edit: Continents, Regions, Language 	ges, Romanisation Systems, Topon	vm Types
	 [Manage Users] – Manage User Access 		
	 [Transaction Logs] – Monitors and records what date 	ita has changed and by whom – Vi	rtual breadcrumbs
	• [Divisions] – Manage Divisions of Countries, Cities	and Geographies	
	• [Unifications] – Manage Unifications of Countries,	Cities and Geographies	
	• [Timeline] – Observe timelines of Countries, Cities	and Geographies	

WGN SYSTEM ARCHITECTURE



RE-ESTABLISHING THE WGN DATABASE

Intended Data Integration Flows



LOOKING TO THE FUTURE

LOOKING TO THE FUTURE

- **1**. Collaboration with the Library
- 2. Potential collaboration with other institutions providing authoritative geographical names
- 3. Addition of SKOS to Geographic Features