





Agenda Item 3 World Geographical Names Database

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Overall vision of UNGEGN World Geographic Names (WGN) 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 'go to' for authoritative, comparable, and highquality geographic names/toponyms – aligned with its Strategic Plan



Provide a dramatically improved platform for managing toponymic data



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



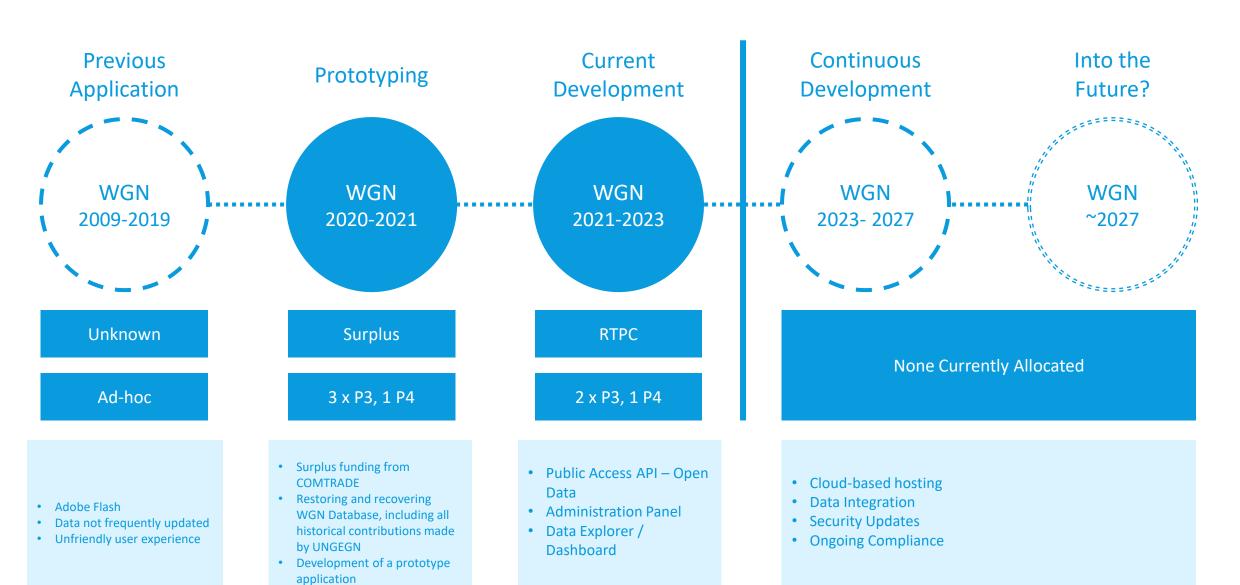
Basic Data Model / Geographic Extent

Authoritative, multi-lingual information on:

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

	Da	ata Header	Arabic	Chinese	English	French	Russian	Spanish	Endonyms	5	
Region	•	M49: 22 ISO3 Geography (Bounding Box / Coordinates)	شرق أفريقيا	东非	East Africa	Afrique de l'Est	Восточная Африка	África Oriental			
Country	•	M49:450 SKOS ISO3: MDG Bounding Box / Coordinates SKOS MOS	مدغشقر	马达加斯加	Madagascar		Мадагаскар	Madagascar	Malagasy	Madagasikara	Repoblikan'i Madagasikara
City			أنتاناناريفو	塔那纳利佛	Antananarivo	Antananarivo	Антананарив У	Antananarivo	Antananarivo	Antananarivo	

Technical Development



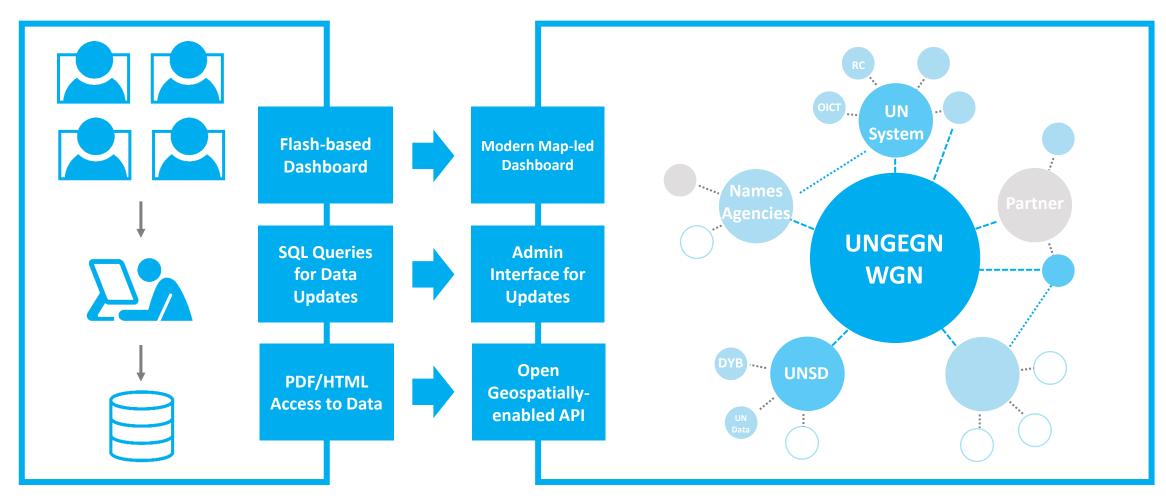
WGN System Components

Position the UNGEGN as a global leader in authoritative geographical names

- 1 WGN Dashboard Publicly Accessible Dashboard
- WGN API Publicly Accessible, read-only geoJSON, API
- **3** WGN Administration System User Interface for UNGEGN Secretariat



Previous World Geographic Names Database vs the modernized WGN



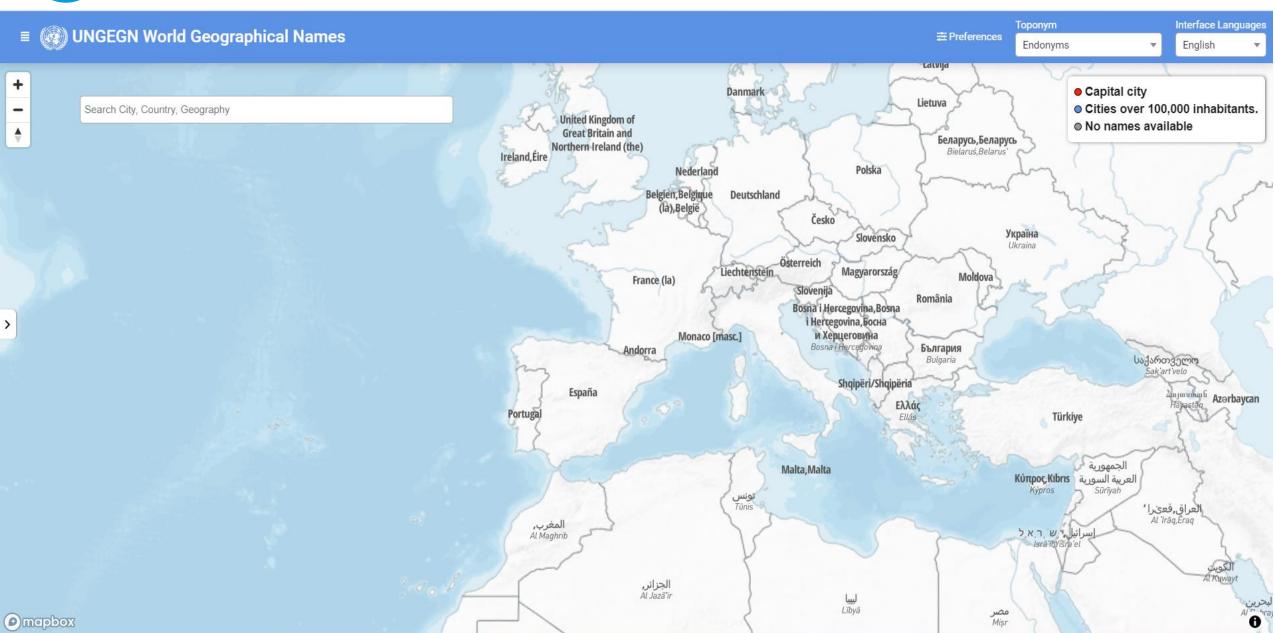
WGN 2009

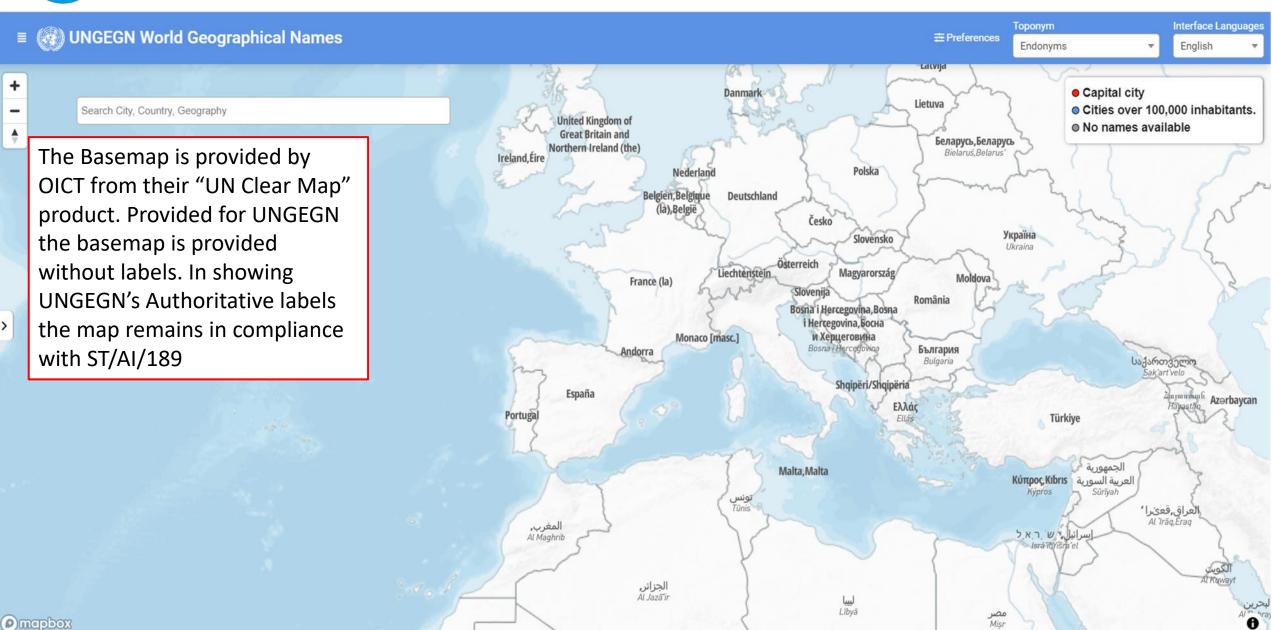
Web 1.0 Technology

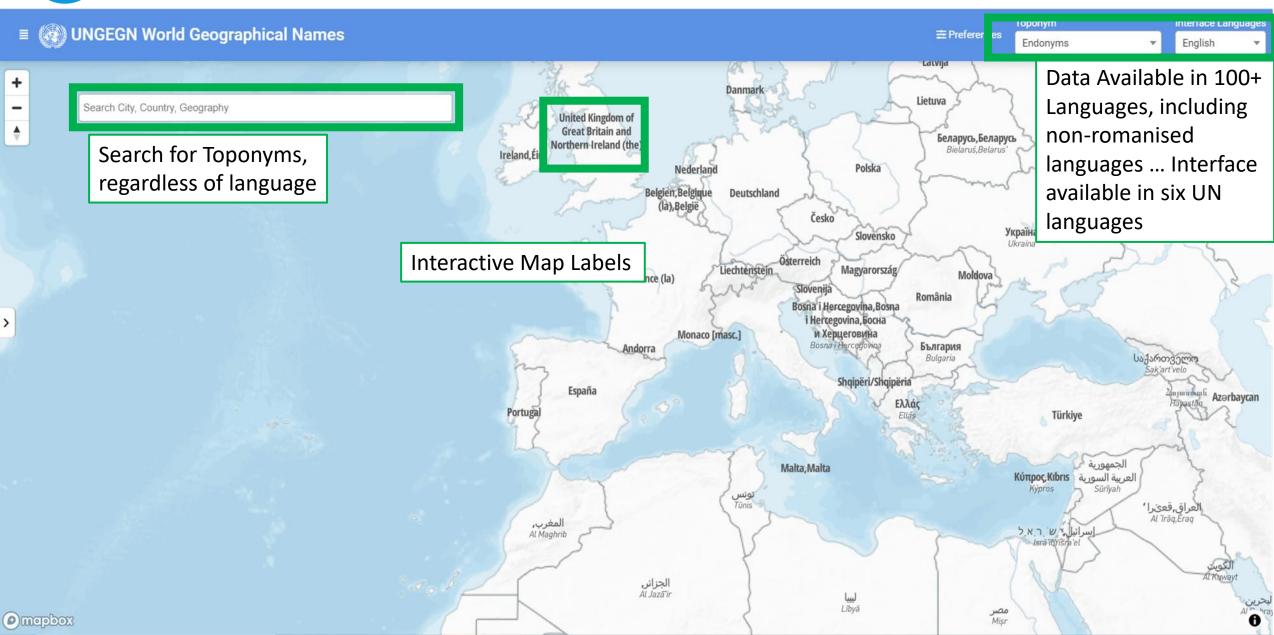
WGN 2023

Automated processes and high capacity

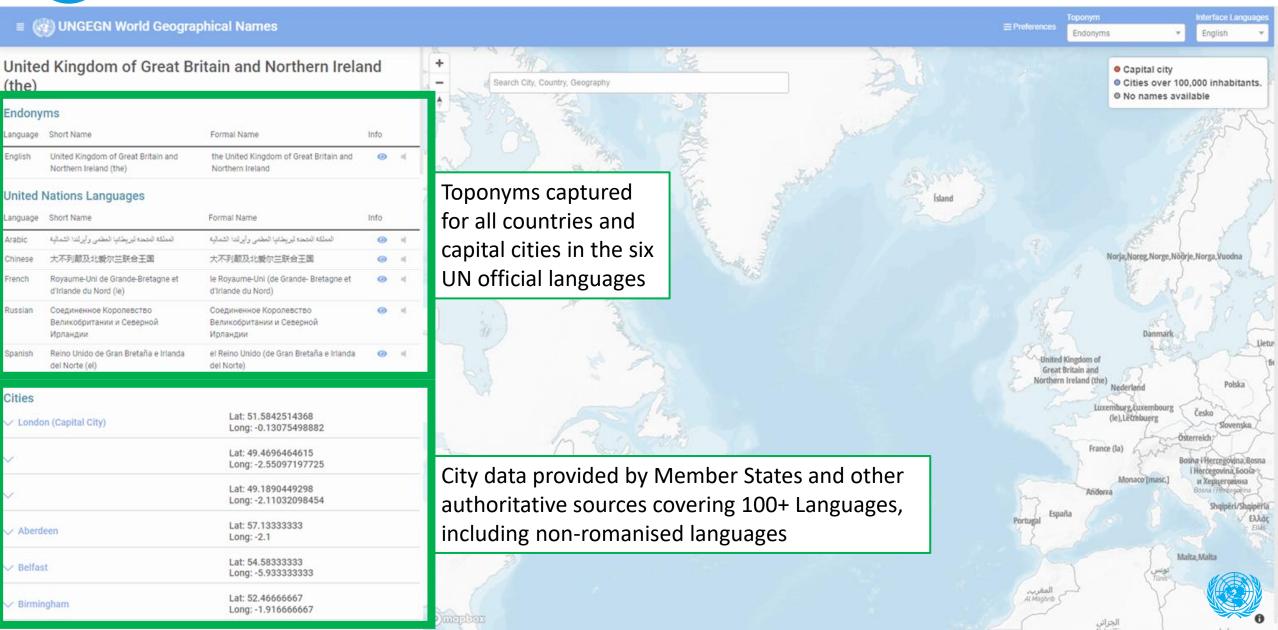














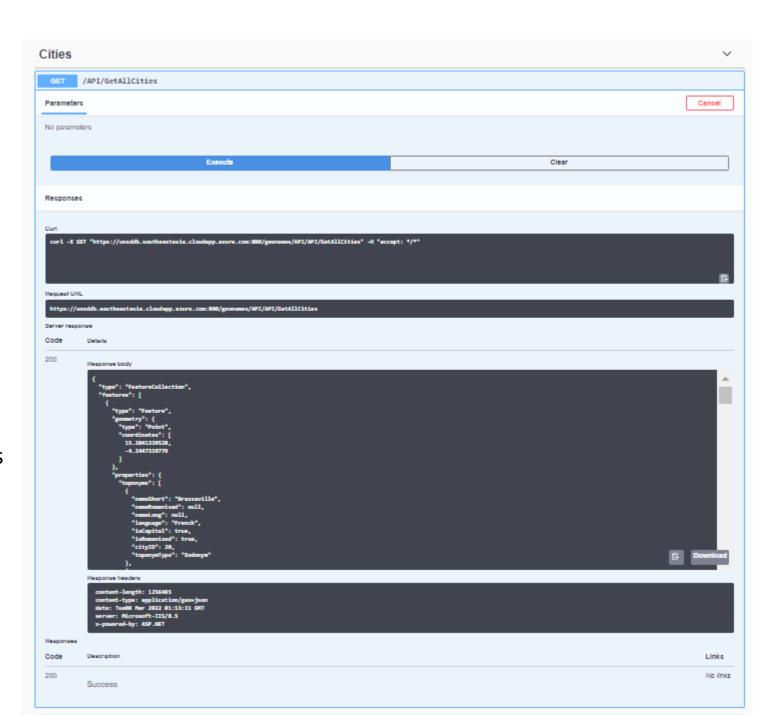
WGN API

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
- 4. 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

Search by City 🗸

Cities

				Search Back to Full List
Country Name	City Name - [Romanized Name]	ls Captial?	Coordinates Source	Actions
Ukraine	Kyiv		United Nations Cartographic Section	/
Belarus	Minsk		United Nations Cartographic Section	/
Republic of Moldova (the)	Chisinau		United Nations Cartographic Section	/
Romania	Bucharest		United Nations Cartographic Section	/
Finland	Helsinki		United Nations Cartographic Section	/
Latvia	Riga		United Nations Cartographic Section	/ ● i i
Lithuania	Vilnius		United Nations Cartographic Section	/ ● i i
North Macedonia	Skopje	☑	United Nations Cartographic Section	/ · · · · · · · · · · · · · · · · · · ·
Bulgaria	Sofia	₩	United Nations Cartographic Section	/ · · · · · · · · · · · · · · · · · · ·
Serbia	Belgrade		United Nations Cartographic Section	/
Poland	Warsaw	₩	United Nations Cartographic Section	/ ② i i
Ireland	Dublin		United Nations Cartographic Section	/ ③ i ii
Germany	Berlin		United Nations Cartographic Section	/
Denmark	Copenhagen		United Nations Cartographic Section	/
Albania	Tirana		United Nations Cartographic Section	/ ② i i
Italy	Rome		UNGEGN	/ ● i ii
Andorra	Andorra la Vella	✓	United Nations Cartographic Section	/ ● i i
Bosnia and Herzegovina	Sarajevo	✓	United Nations Cartographic Section	/ · · · · · · · · · · · · · · · · · · ·
Monaco	Monaco	☑	United Nations Cartographic Section	/ · · · · · · · · · · · · · · · · · · ·
Croatia	Zagreb	✓	United Nations Cartographic Section	/ · · · · · · · · · · · · · · · · · · ·
San Marino	San Marino	✓	United Nations Cartographic Section	/ ③ i i
Switzerland	Berne	✓	United Nations Cartographic Section	/
Hungary	Budapest	∅	United Nations Cartographic Section	/
Slovenia	Ljubljana		United Nations Cartographic Section	/

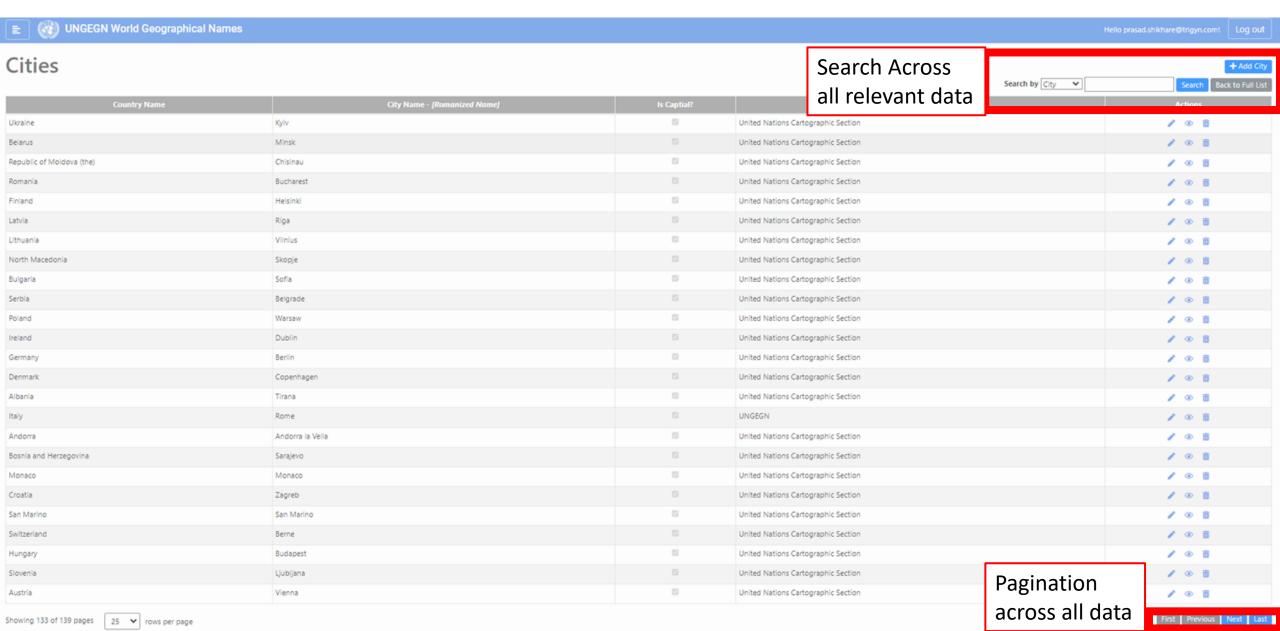
United Nations Cartographic Section

Austria

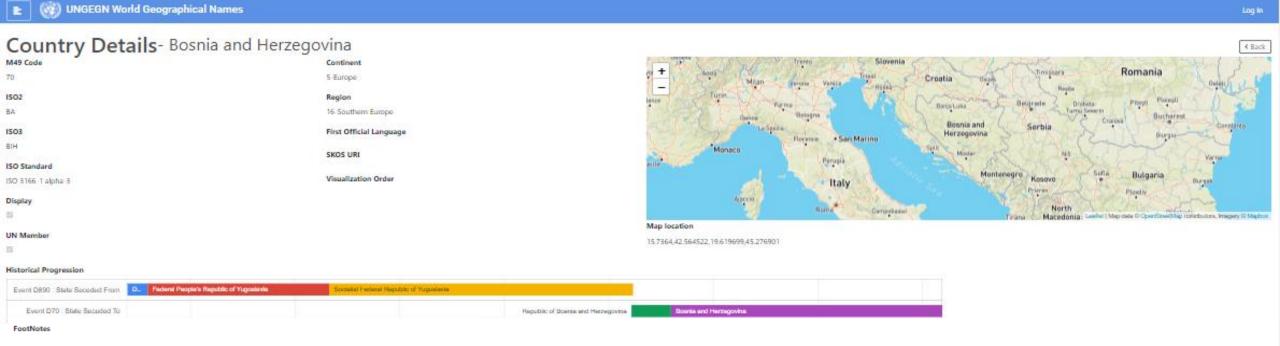
Vienna

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

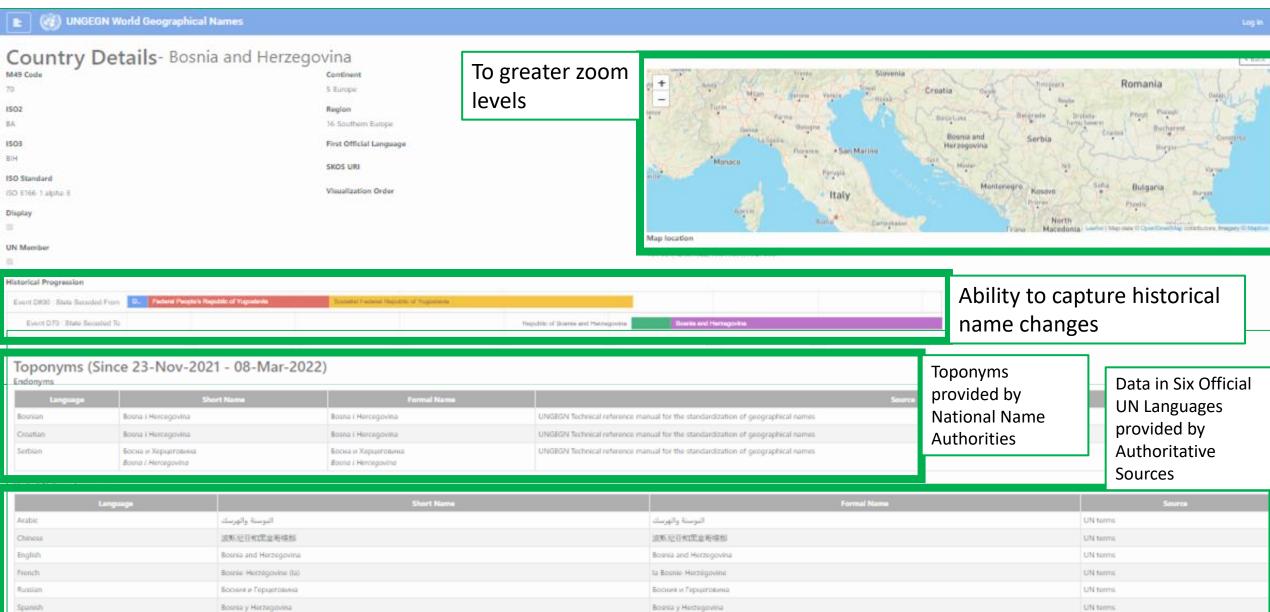
Endonyms

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	波斯尼亚和黑迪哥维那	波斯尼亚和黑金哥维那	UN terms
English	Bosnia and Herzegovina	Bosnia and Herzegovina	UN terms
French	Bosnie Herzégovine (Ia)	la Bosnie Herzégovine	UN terms
Russian	Босния и Герцеговина	Босния и Герцеговина	UN terms
Spanish	Bosnia y Herzegovina	Bosnia y Herzegovina	UN terms





WGN Implementation: A Future Roadmap of three parts

WGN Database Launch:

Finalise UN mandated technical compliance procedures, following the third session

Data Integration
Ensuring full geographic completeness of all countries and cities

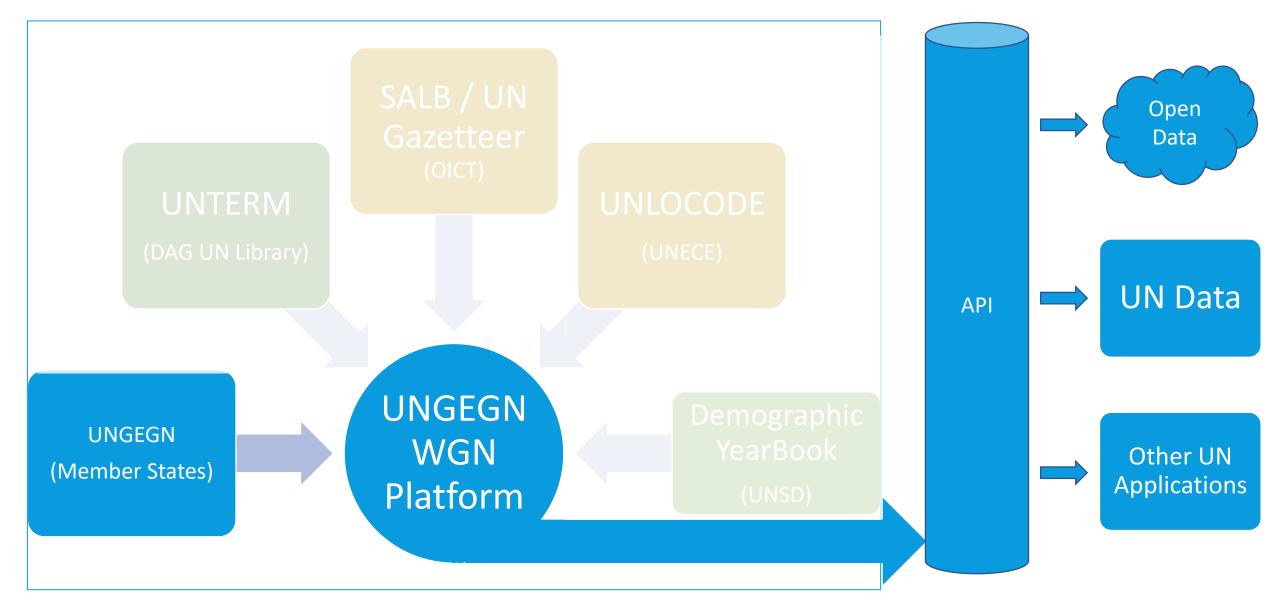
Data Governance, Feature Improvement and Future Development What do <u>we</u> do next?

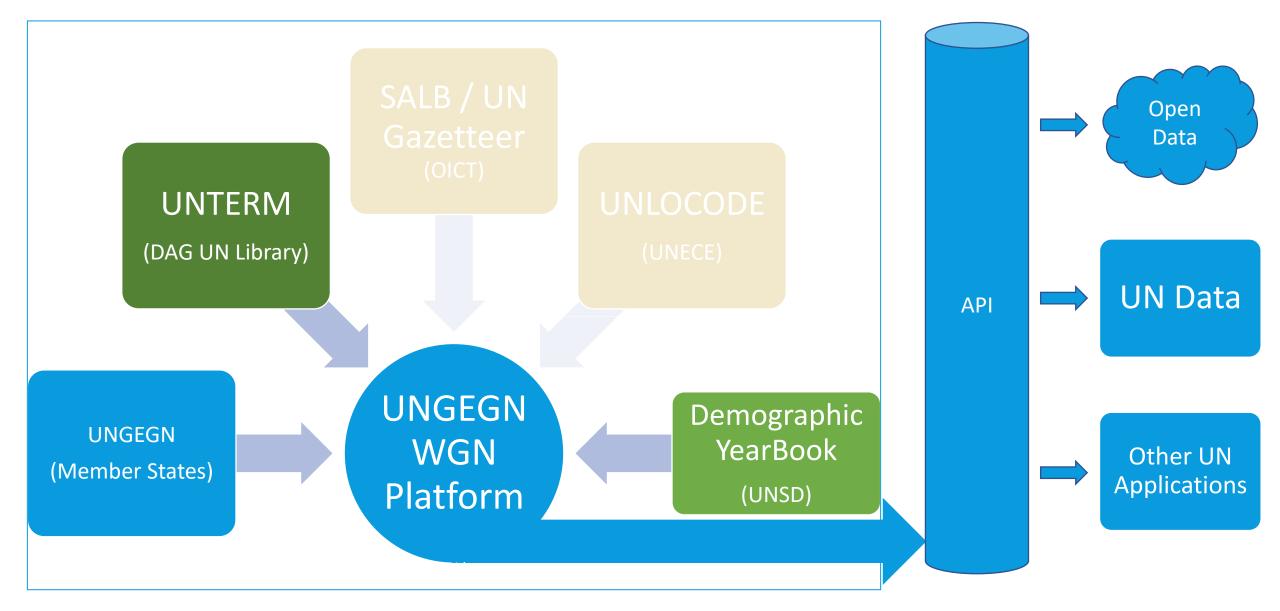


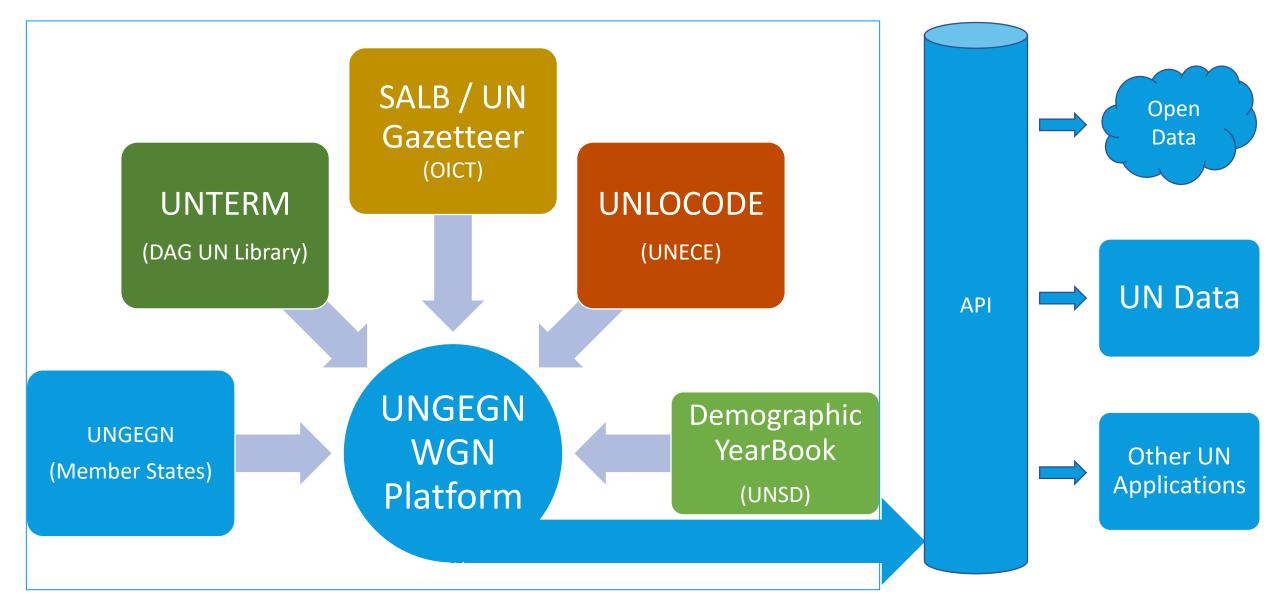


https://tinyurl.com/un-wgn

The Secretariat will inform UNGEGN when a permanent URL is available







UNGEGN Data Integration Flow

Defining engagement with Member States to collect/update geographical names

– what are the potential process(es)?

1. Member States

- i. Request review of existing geographic names held within the WGN database
- ii. Request input (in defined format) of new geographical names
- iii. Interlinkages with national geographical names authorities and identify national focal point(s)
- iv. ...?

2. Authoritative Data from the UN System

Short Term

- i. UN Demographic Yearbook Authoritative Member State provided statistical data
- ii. UNTERM

Long Term

iii. UN Gazeteer

Data Governance

Today:

- The Secretariat has the means to input into the revived WGN Database all cities provided to it by UNGEGN in its previous iteration, integrating this data with the complement of data from the UN Demographic Yearbook in both cases this data is provided by a Member State national authority/institution to the United Nations. This will add 2,735 cities to the WGN Database 6,097 cities globally will be managed within the database.
- The Secretariat will work towards endonymic 'completeness' of this data across the six official UN languages (Arabic,
 Chinese, English, French, Russian, and Spanish), integrating authoritative linguistic data from the Demographic Yearbook
 and the UNTERM database. The positional accuracy of geographic coordinates will be assessed in cooperation with the
 UN Geospatial Information Section of the UN Office of Information and Communications Technology (OICT)
- The Working Group on Geographical Names Data Management (see report GEGN.2/2023/73/CRP.73), as part of its work plan Action Item 1-i-5 "Promote and support the establishment of an authoritative international database/gazetteer of geographical names to be disseminated to the public through UNGEGN" notes that the WGN Database will now be monitored by the Working Group.

3 Data Governance

Some questions to guide **future** discussion of the WGN Database:

- How should UNGEGN promote the WGN Database to collect and manage data outside the six official UN languages?
- How should the WGN Database be promoted and communicated to the broader geographical names, geospatial, and linguistic communities?
- What is the quality of the current data within the WGN Database?
- What are the future opportunities that can explore other geographies Building on Country and City data to include data on Indigenous and Cultural Heritage... and beyond.

The WGN Database is a tool for managing toponymic data for cities and countries. It can be extended to manage toponymic data pertaining to culture, heritage and identity, including indigenous, minority and regional languages – but requires the ownership of relevant bodies to define appropriate data workflows and other cartographic concerns.

Potential Future Feature Improvement and Development

Feature Improvement

- 1. A unique identifier for cities
- 2. Improved cartography
- 3. Other features to be defined (resources permitting)

Data Development

- Addition of unique identifiers Geographic Features to enable Linked Data and other forms of integration potentially with other gazetteers
- 2. Potential collaboration with other institutions providing authoritative geographical names
- 3. Collaboration with the UN Library, SALB and other sources of geographic data where geographic names are important
- 4. Discussion(s) on how to develop the application further whether by open-source development or through direct provision of resources by UNGEGN, Secretariat or other means etc.
- 5. Audio files for pronunciation of toponyms
- 6. ...

38. The Group of Experts is invited to:

- (a) Take note of the present report and express its views on the redevelopment and future direction of the World Geographic Names Database;
- (b) Welcome and invite Member States and their National Names Authorities to submit and update toponymic data to the secretariat;
- (c) Consider and provide further guidance regarding:
 - i. The development of a unique identifier for cities;
 - ii. An appropriate governance mechanism for the World Geographic Names Database, inclusive of guidance on the Database's promotion and communication;
- (d) Express its views on how Linked Data and the semantic web can be integrated into the World Geographic Names Database



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