Intro to **GNAF**

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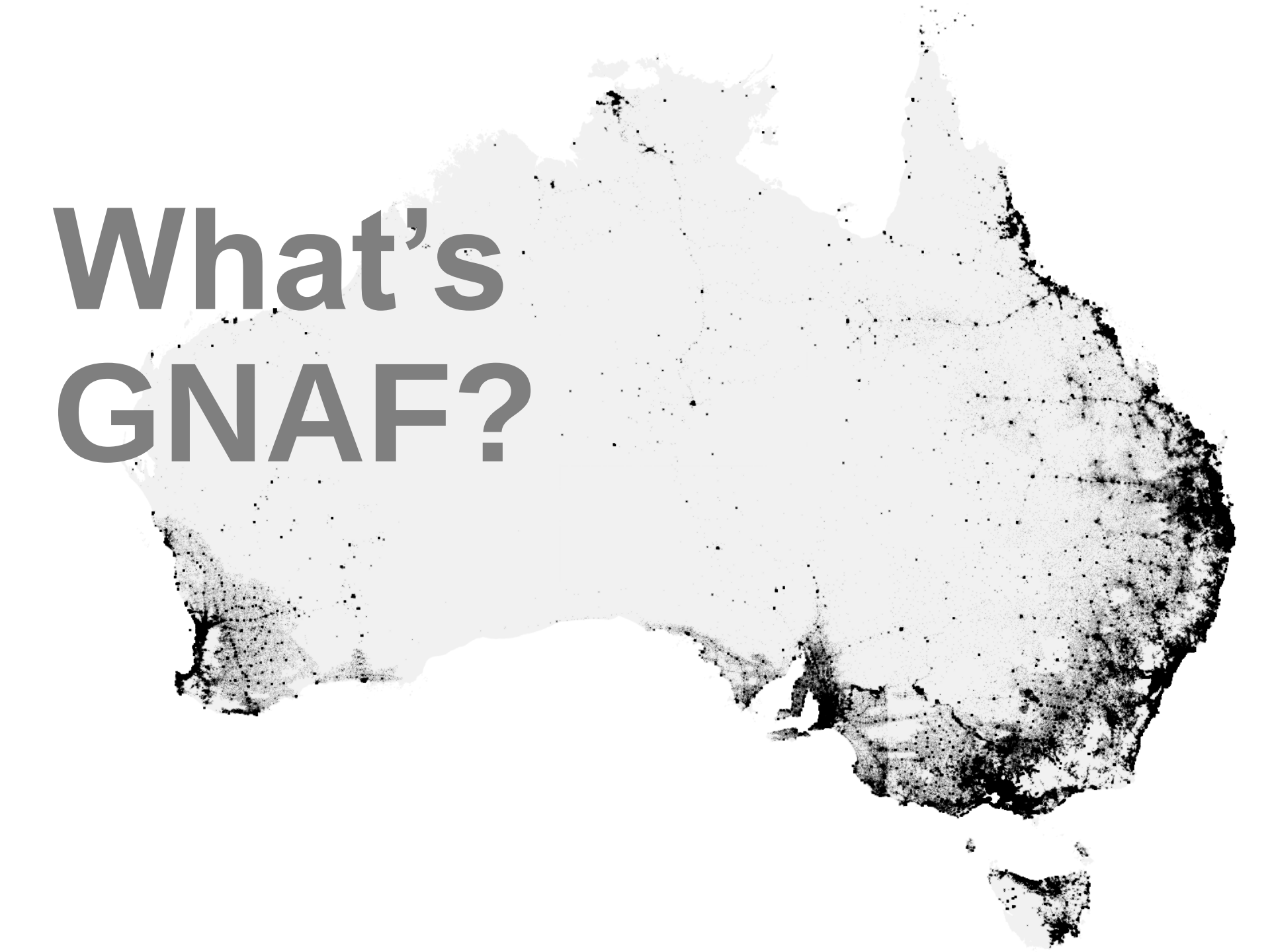
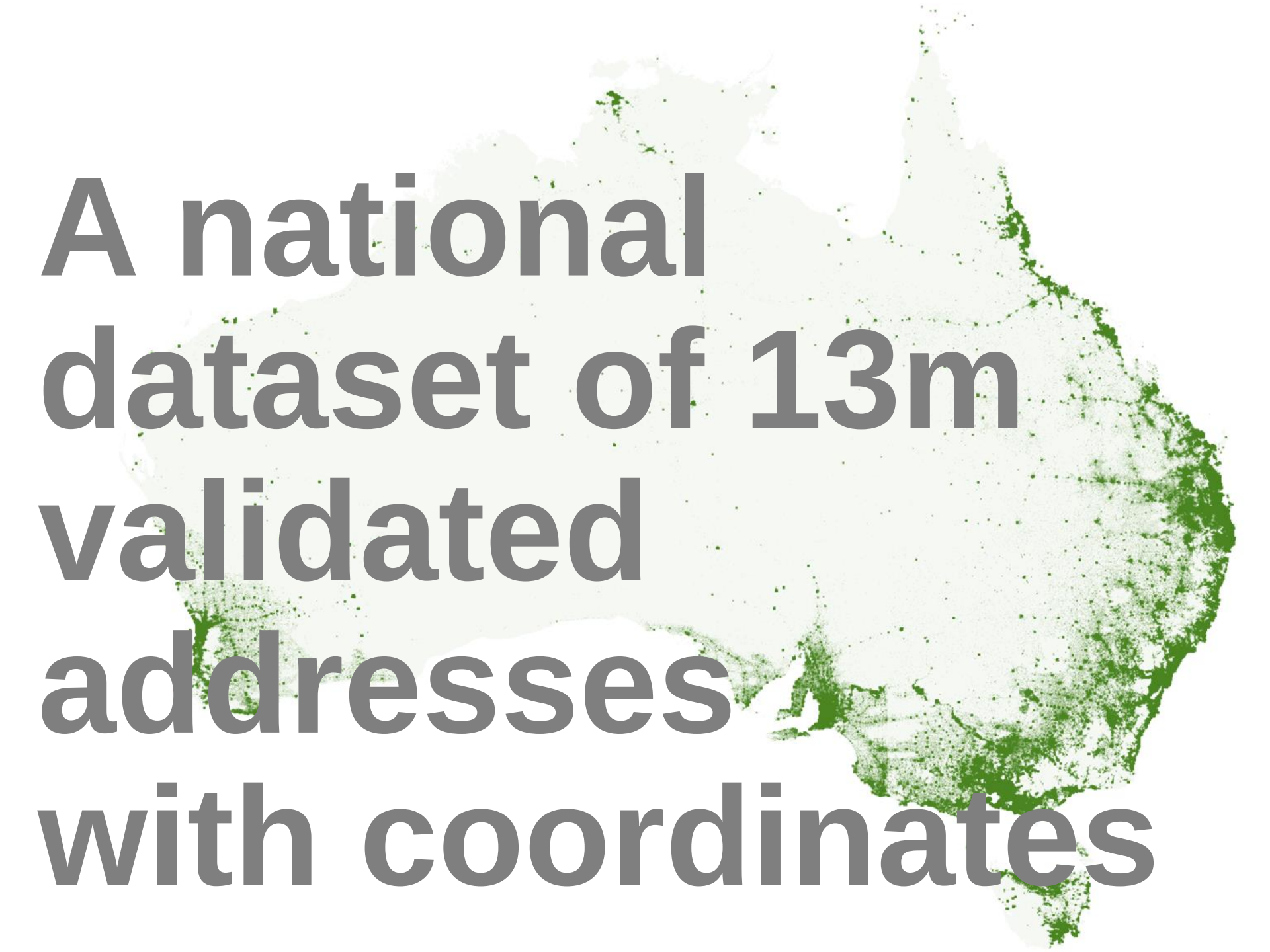
What's GNAF?





A national dataset of 13m validated addresses with coordinates


Why
is
GNAF
awesome?

It underpins decision making & economic activity…

…at the national level

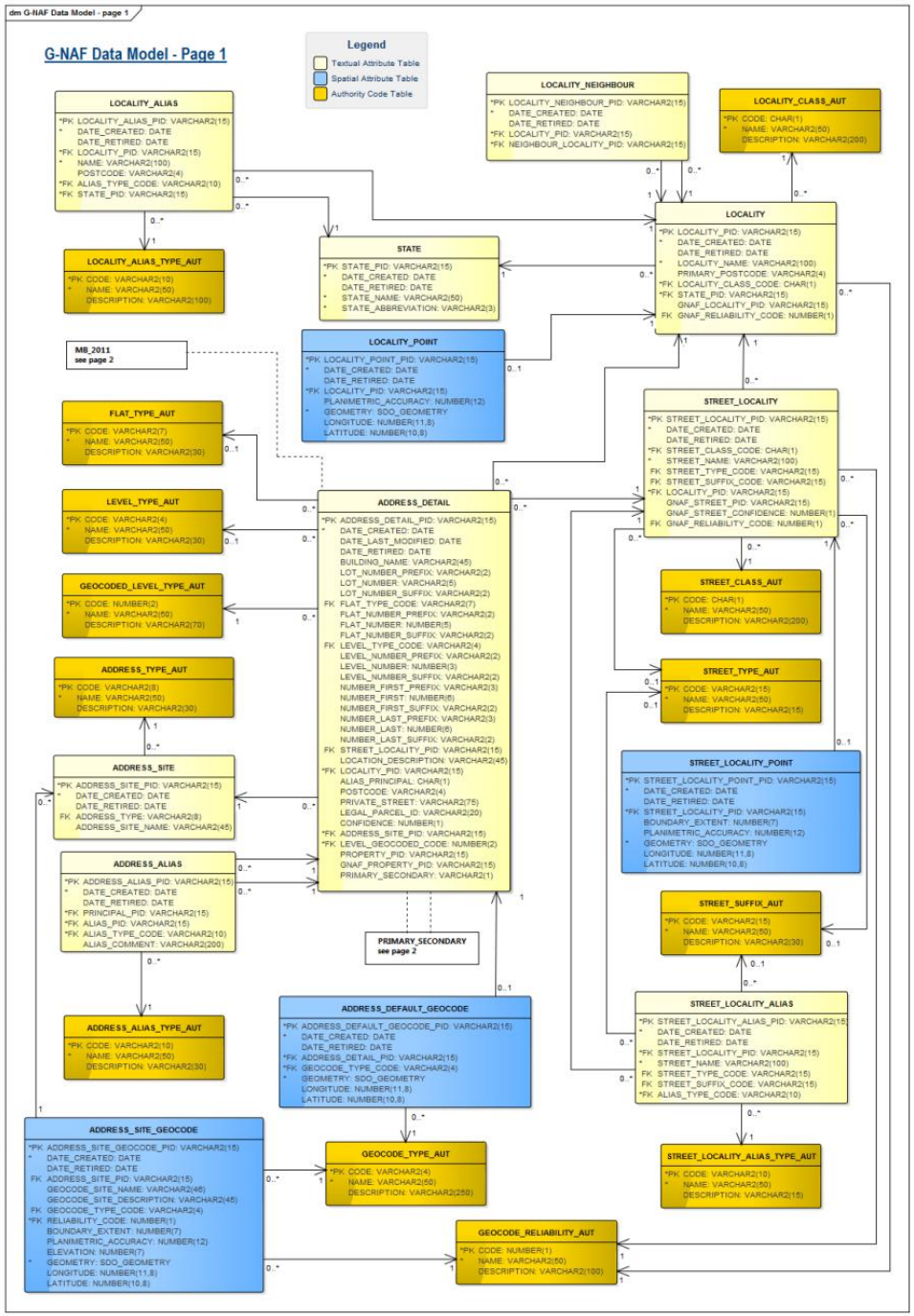

...the
regional
level


...and at a
granular level

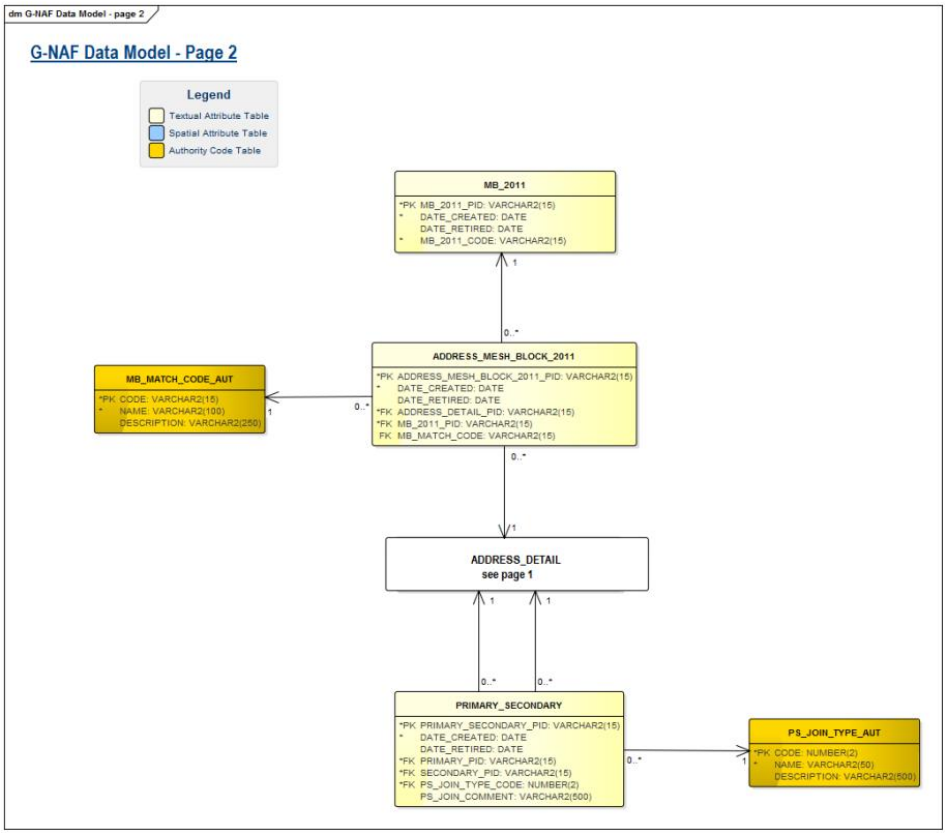
GNAF
is now…

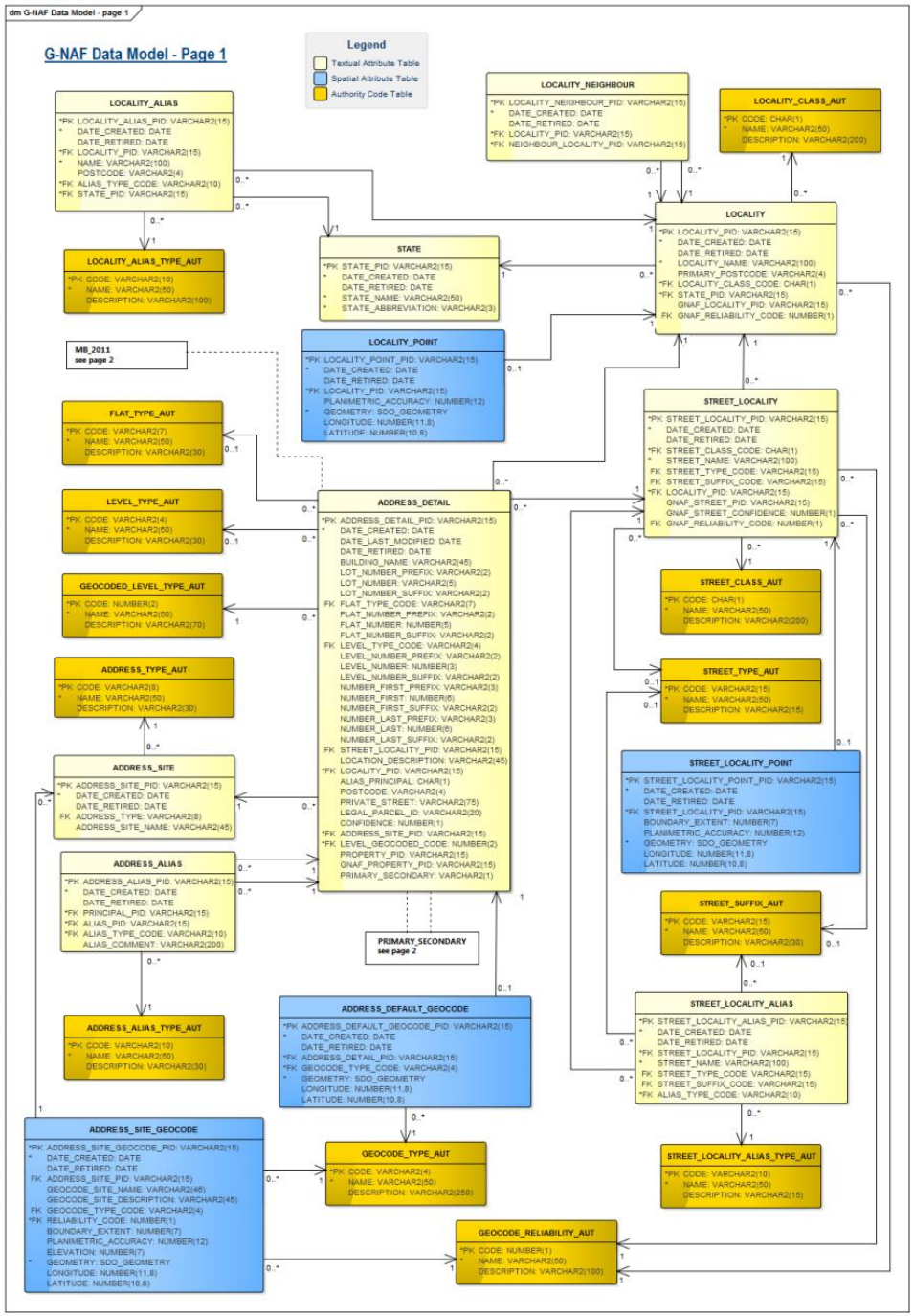

OPEN DATA!!!

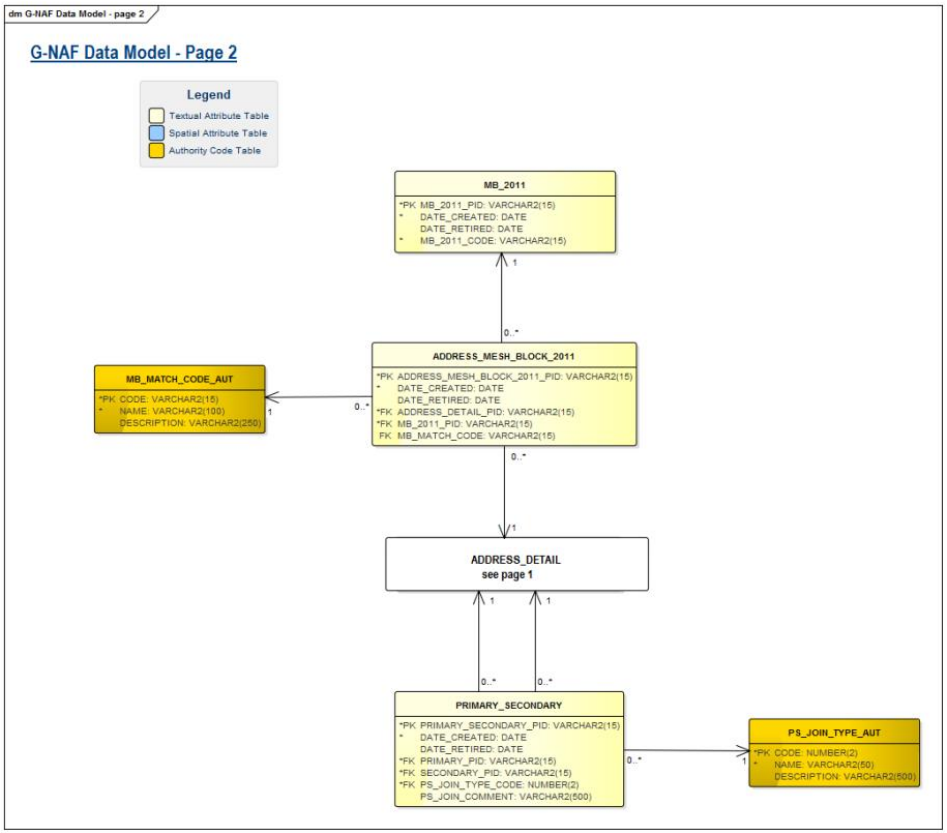
Time for a deep dive!?



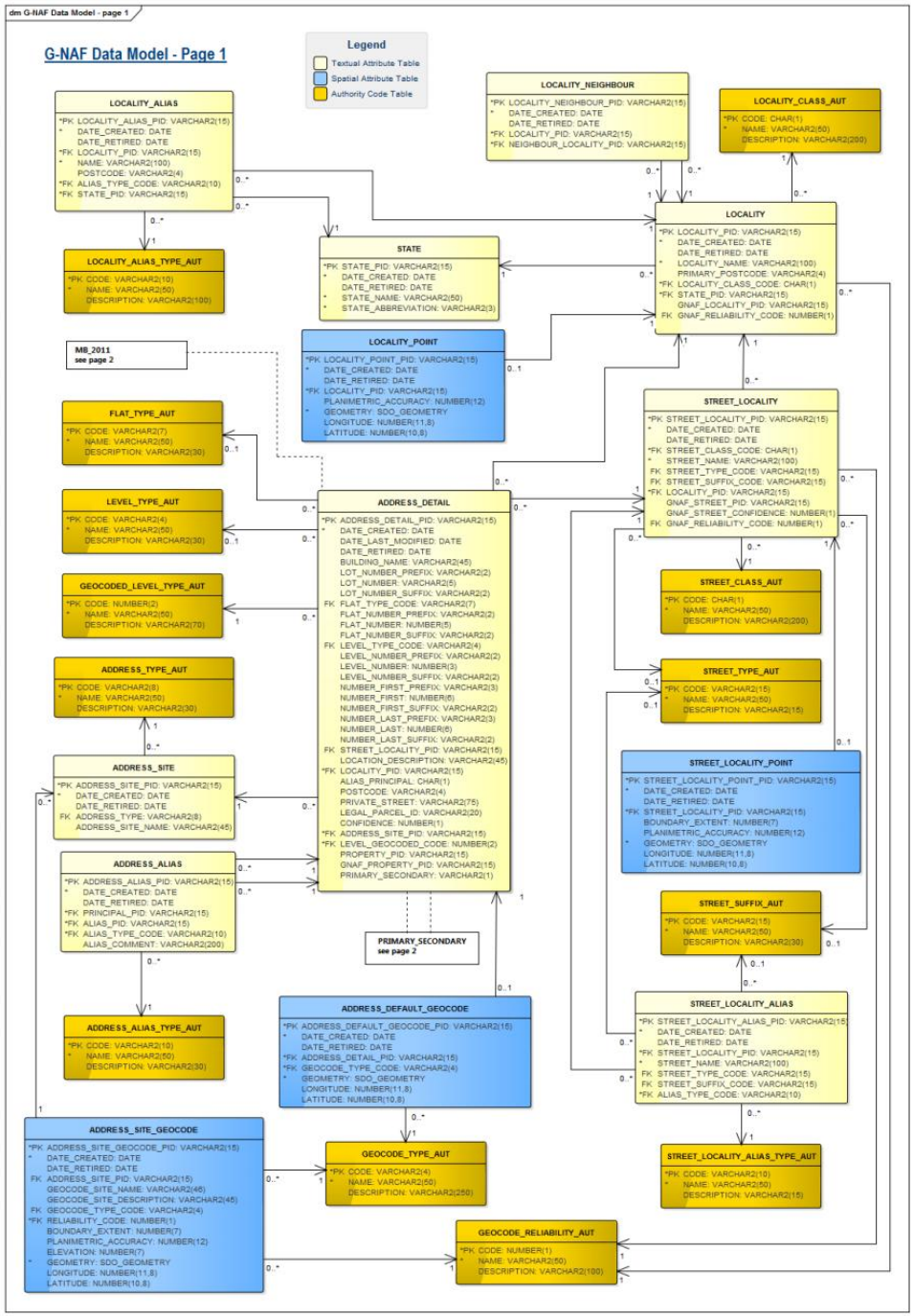
The GNAF data model

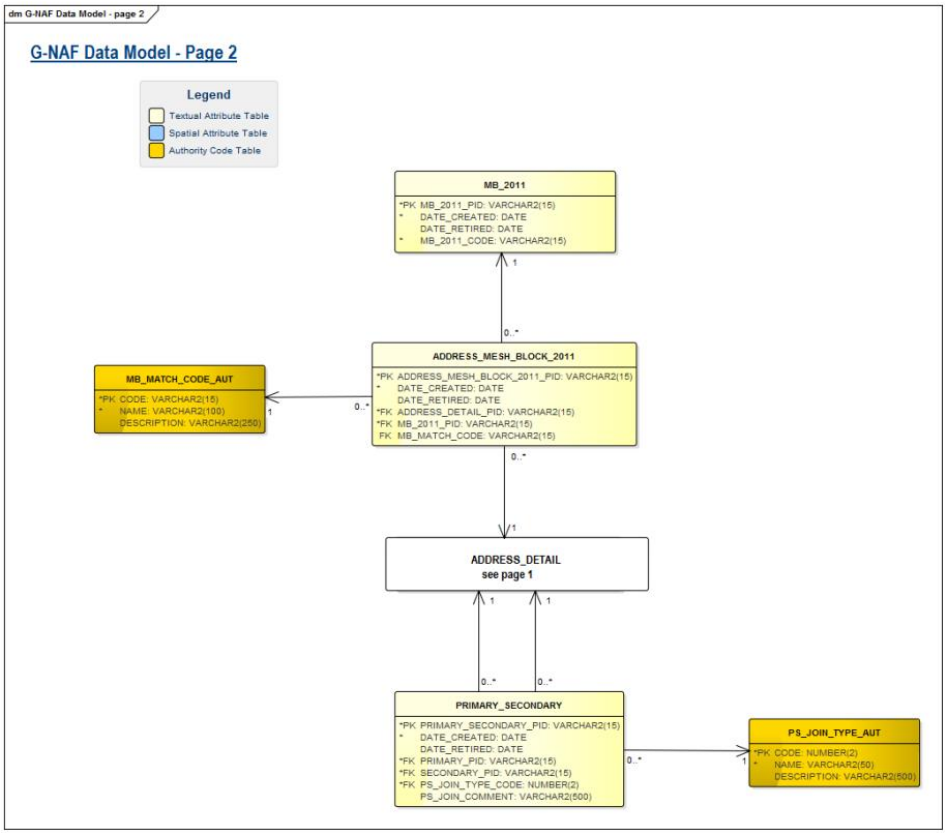




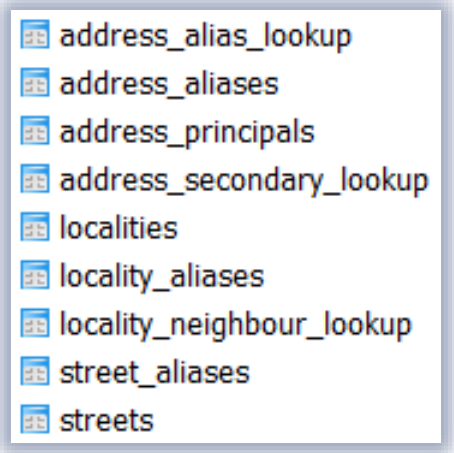


- 4.8 Gb
- 144 PSV files
- 31 tables
- 39 foreign keys





Let's Simplify things…


address_alias_lookup
address_aliases
address_principals
address_secondary_lookup
localities
locality_aliases
locality_neighbour_lookup
street_aliases
streets


Introducing…
gnaf-loader!

Let‘s get started

Step 1:
download the data

Australian Government

http://data.gov.au/dataset/geocoded-national-address-file-g-naf

http://data.gov.au/dataset/psma-administrative-boundaries

Step 2:
install the pre-reqs

Step 3:
run the code*

https://github.com/minus34/gnaf-loader

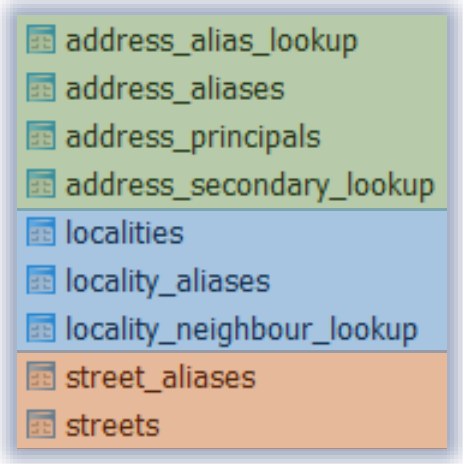
* or download the Postgres dump files

Step 4:
learn GNAF...

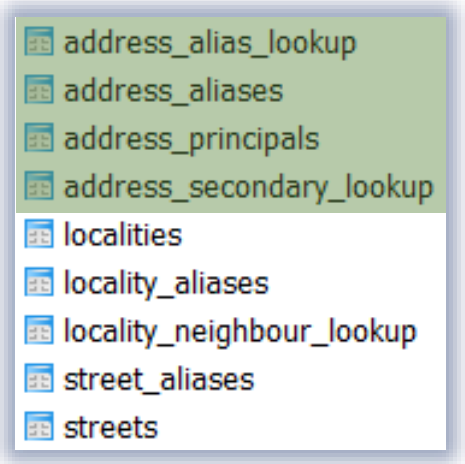
ADDRESSES

STREETS

LOCALITIES

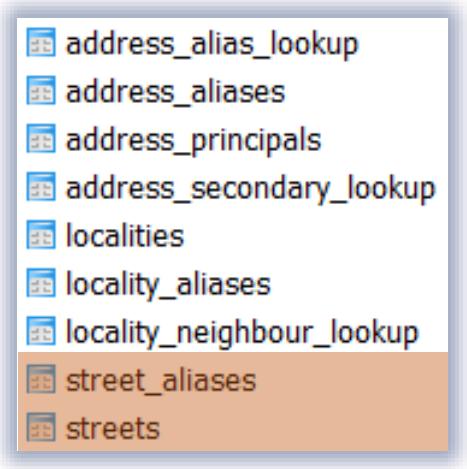


ADDRESSES (13m)



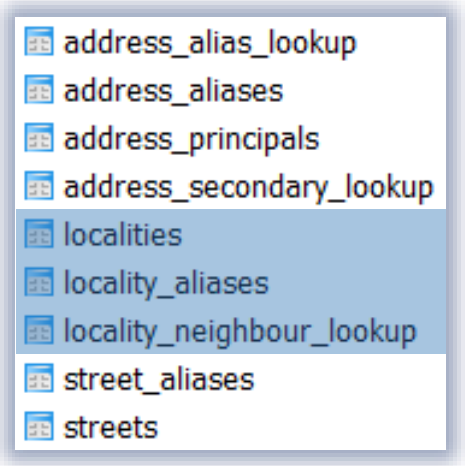
- Keyed by **gnaf_pid**
- Represent an address **validated** by State Govt, Australia Post and/or the AEC
- Must link to a **street** and **locality** (via locality_pid & street_locality_pid)
- Can be a **principal** address (20 FRED ST) or an **alias**/duplicate (20-30 FRED ST)
- Can be a **primary** address (10 JOHN ST) or **secondary** address (Unit 2, 10 JOHN ST)
- 95% have coordinates **inside the property**
- Link to the **ABS Census** (mb_2011_code) and **property** information (legal_parcel_id)

STREETS (700k)



- Keyed by **street_locality_pid**
- Represent a **unique street name** in a **locality**
- i.e. Pacific Hwy, Chatswood
  != Pacific Hwy, Artarmon
- Must link to a **locality** (via locality_pid)
- Can have an **alias** name
  (Main St = Hume Hwy)

LOCALITIES (16k)



- Keyed by **locality_pid**
- Represent suburbs, towns, localities and topographic features
- Can have an **alias** name
  (CITY, ACT = CANBERRA, ACT)
- Are surrounded by **neighbouring** localities

Thanks,
enjoy!

BTW…

There's the Admin Bdys as well!