

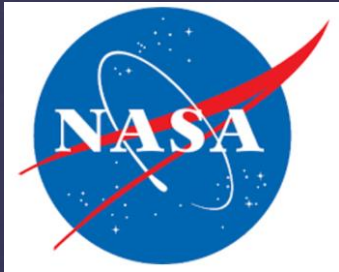
# Google Earth Engine Perth Cloud Meetup

{ October 2017  
{ Richard Greene

- ⌘ First off, Earth Engine is not Google/Bing Maps, but they are similar.
- ⌘ Marketing call it “A planetary-scale platform for Earth science data & analysis” but in another way it’s just a “Very, very large datasets” running on Cloud servers
- ⌘ Has both free public and paid datasets
  - ⌘ Main use is research
  - ⌘ Show impact on the environment
  - ⌘ But there is so much more....

# So what is Earth Engine?

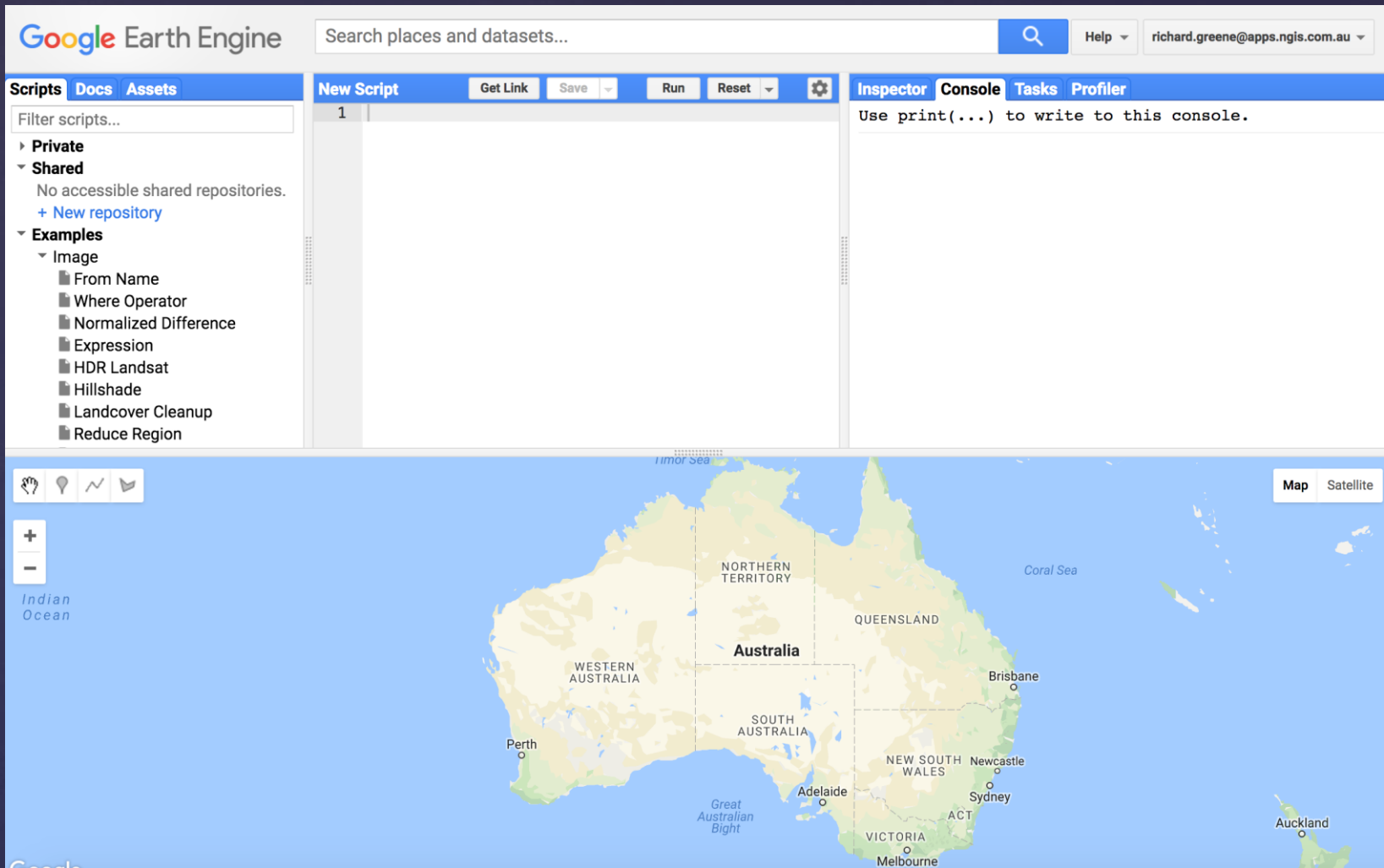




1. Started with big boys toys
  2. Australia launched a satellite for the UK in 1971.
  3. Capture data "on demand"
- 
1. Moving to small cheap NanoSat
  2. Capture data "continually"
  3. 2017 Australia announced it was creating a space agency

Lets look at the satellite business





# How do you use it?

Option 1: Online Code playground



⌘ Two basic options open for developers

⌘ Javascript

⌘ Python



⌘ Both can be downloaded from

⌘ <https://developers.google.com/earth-engine/>

⌘ Also Docker images available

⌘ Note: These are client side, not server side!

# API Code

Option 2: Native APIs





- ⌘ To get things running Server Side
  - ⌘ Download from <https://github.com/gena/ee-runner>
- ⌘ Your biggest issue will be registration and dealing with security.
  - ⌘ Download Json
  - ⌘ Download p12 certificate
- ⌘ Lets run a demo

# Server Side Operation

Option 3: EE Runner ... Open Source comes to the rescue