5G/6G - CONVERGENCE OF CELLULAR AND SATELLITE IOT CONNECTIVITY.



# VIVEK RAO

I AM BASED IN SYDNEY, NEW SOUTH WALES, AUSTRALIA.

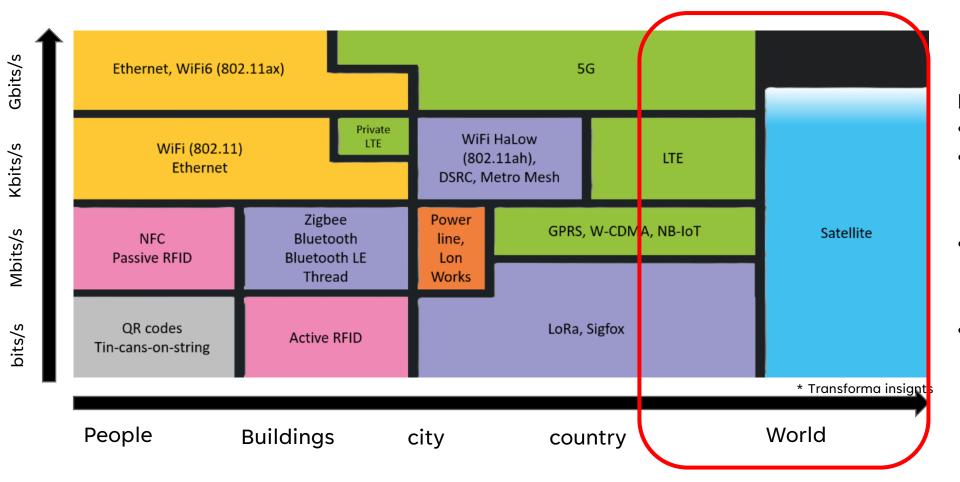
CONSULTANT, ADVISING CLIENTS IN THEIR JOURNEY TO DEVELOP E2E IOT SOLUTION PROPOSITIONS, FROM DEVICE TO CLOUD, FOR CLIENTS ACROSS APJ.

PREVIOUSLY WORKED WITH NOKIA, ERICSSON WHERE I LED THE EVOLUTION OF VARIOUS IOT SOLUTIONS AND PLATFORMS THROUGH 3G/4G/5G PROGRESSION AND MORE RECENTLY THE INTERPLAY BETWEEN CELLULAR AND SATELLITE CONNECTIVITY.

# NEWS (NOISE) AROUND SATELLITE CONNECTIVITY



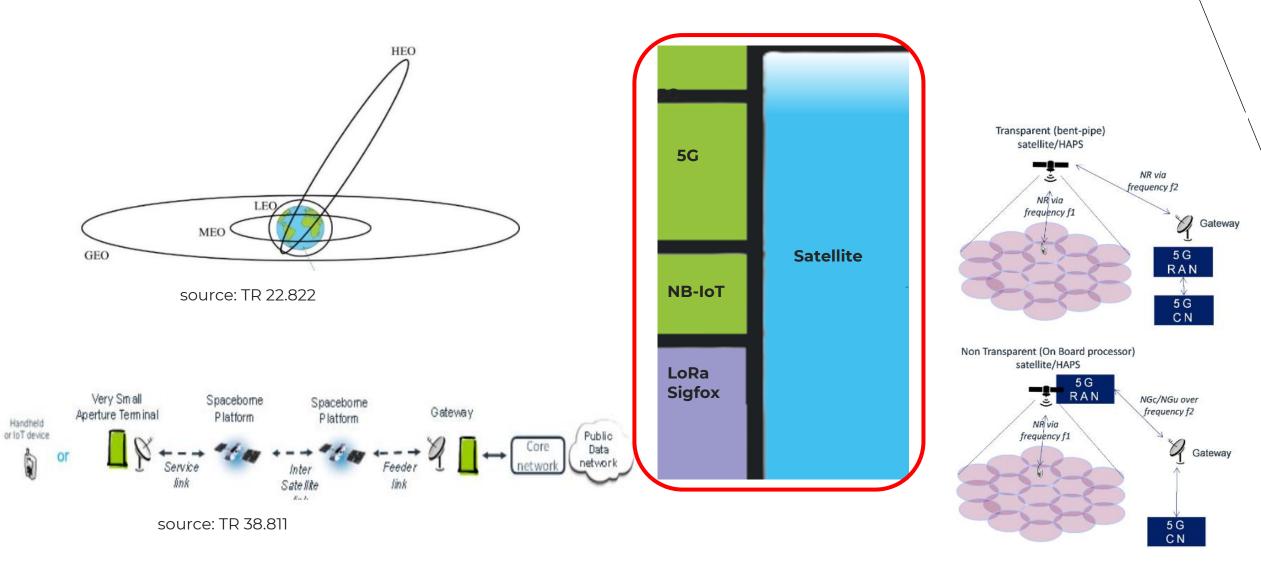
#### SATELLITE IOT CONNECTIVITY : COMING OF AGE



#### Drivers

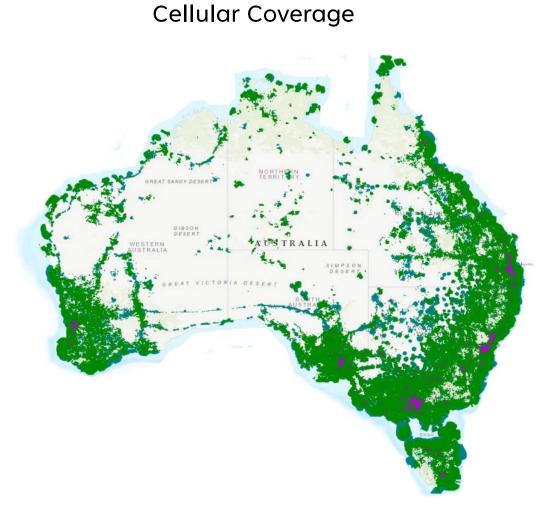
- IoT use case maturing.
- Need for uniform global coverage.
- Investments/scale in
  Satellite industry
  maturing.
- Affordability of Satellite connectivity

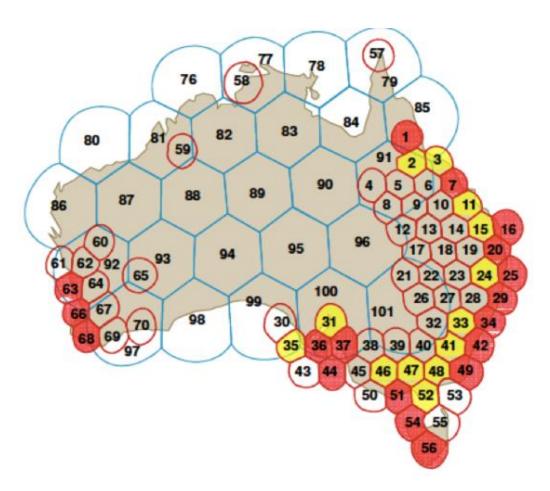
#### SATELLITE IOT CONNECTIVITY : AREA OF INTEREST



# USECASES THAT COULDN'T BE DELIVERED ON CELLULAR

Satellite Coverage





## SATELLITE CONNECTIVITY : NEW ADDRESSABLE AREAS

Cellular Coverage is not viable

- Remote agriculture / Plantations
- Environment monitoring

Objects move across Cellular networks and underserved areas

• Logistics

 Heavy machinery / asset tracking Backup to cellular ( de-risk connectivity)

- Critical infrastructure
- Emergency services / First responders

## SATELLITE CONNECTIVITY : USECASES



Snowy 2.0 will link two dams – Tantangara and Talbingo – through a series of tunnels, underground power stations and pumping capability.

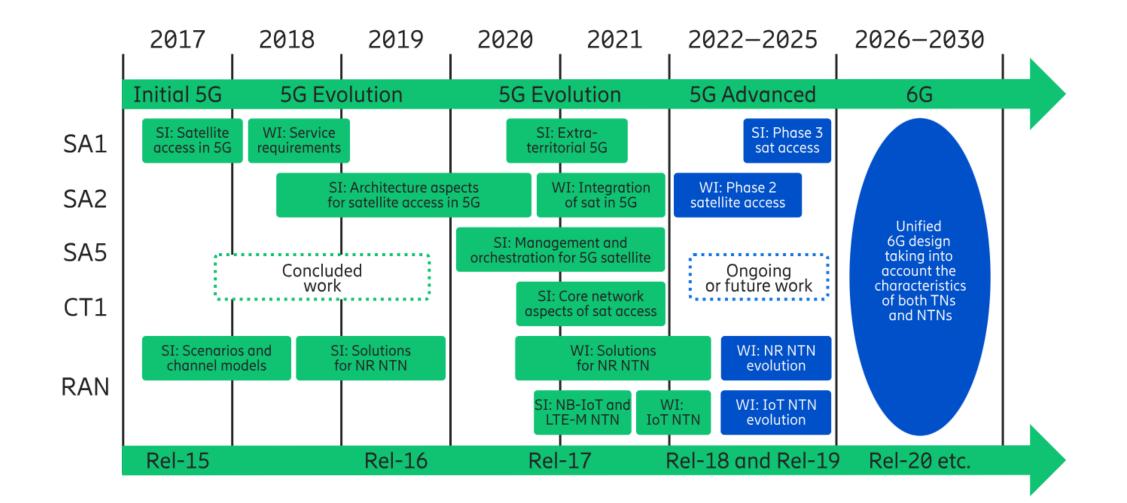
The water is essentially recycled between the upper and lower reservoirs enabling the same water to produce on-demand energy again and again.

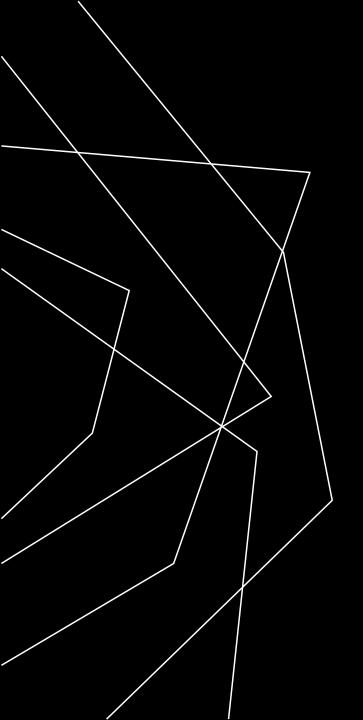


Satellite technology enables regional police cars around Western Australia to stay in constant communication .

Police are also able to easily send livestream body-worn camera and car dashboard footage to the State Operations Command Centre.

#### SATELLITE CONNECTIVITY : IT GETS BETTER





# THANK YOU

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