iris Carbon Mapping Project

IRIS Provider Carbon Concerns

What provider **decisions** are impacted by carbon concerns?

What carbon **reports** could inform those decisions?

What **measurements/data** are needed to generate those reports?

iris Carbon Mapping Project

IRIS Provider decisions impacted by and impacting on Carbon Emissions

What equipment to purchase?

Where to locate equipment? - New/old building/containers etc

How to manage cooling?

How to schedule payloads?

If/when to power down idle equipment?

When to retire equipment?

How to improve service carbon efficiency?

How to procure energy/electricity?

Impact of a diesel backup generator? (consider as scope 2?)

Operational decisions?

iris Carbon Mapping Project

IRIS Provider Carbon Reports to inform decisions

Reporting time periods? - or continuous?

(Total Scope 1: Estimate from generator hours, or energy delivered or fuel consumed.)

Total Scope 2: (Measure energy consumed by datacenter + cooling) x Grid Carbon Intensity

Total Scope 3: Amortise Scope 3 over equipment lifetime (data centre + cooling)

Per User and Per Project Scope 2 and Scope 3 Total Carbon Cost

Per User and Per Project Scope 2 and Scope 3 IDLE Carbon Cost

Non-IRIS user Scope 2 and Scope 3 Total Carbon Cost

Non-IRIS user Scope 2 and Scope 3 IDLE Carbon Cost

Provider IDLE Scope 2 and Scope 3 Carbon Cost

Carbon Mapping Project

Provider - Discussion

More Decisions?

More Reports?

Site to Site Comparison?

Data needed?

What equipment to purchase?

Where to locate equipment? - New/old building/ containers etc

How to manage cooling?

How to schedule payloads?

If/when to power down idle equipment?

When to retire equipment?

How to improve service carbon efficiency?

How to procure energy/electricity?

Impact of a diesel backup generator? (consider as scope 2?)

Operational decisions?

Reporting time periods? - or continuous

(Total Scope 1: Estimate from generator hours, or energy delivered or fuel consumed.)

Total Scope 2: (Measure energy consumed by datacenter + cooling) x Grid Carbon Intensity

Total Scope 3: Amortise Scope 3 over equipment lifetime (data centre + cooling)

Per User and Per Project Scope 2 and Scope 3 Total Carbon Cost

Per User and Per Project Scope 2 and Scope 3 IDLE Carbon Cost

Non-IRIS user Scope 2 and Scope 3 Total Carbon Cost

Non-IRIS user Scope 2 and Scope 3 IDLE Carbon Cost

Provider IDLE Scope 2 and Scope 3 Carbon Cost