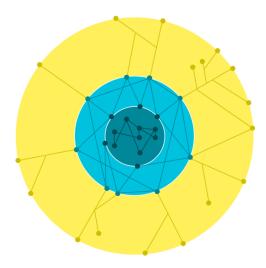
Google

Google Protects their Network Services Workforce with Metro Partition Solution

Vidhya Shankar Govindarajan, James Stavropoulos

Google Global Network



Data Centers

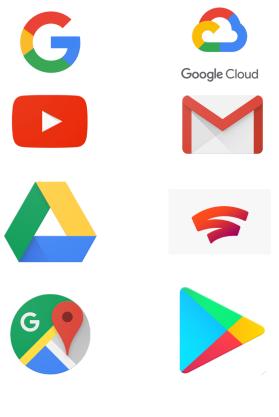
Edge Points of Presence (POPs)



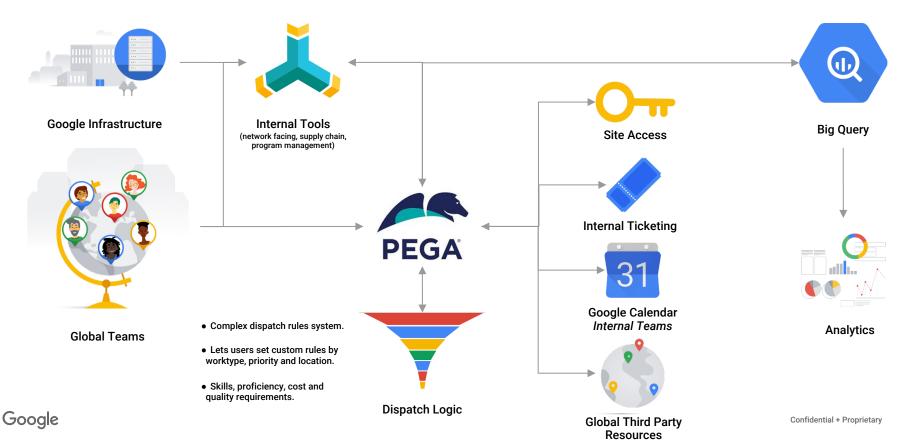




Powers these services..



Google Technician Dispatching System



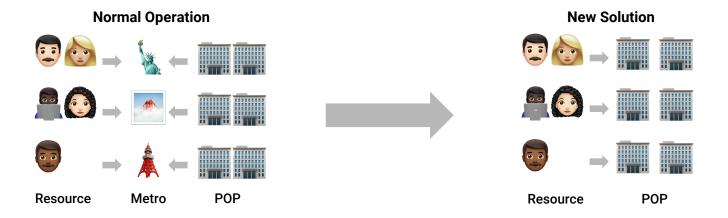
COVID19 - Priorities and Challenges

- Priorities
 - Keep people safe!!
 - Provide high quality services
- Challenges
 - Enforce social distancing
 - Resource group restrictions
 - Site restrictions



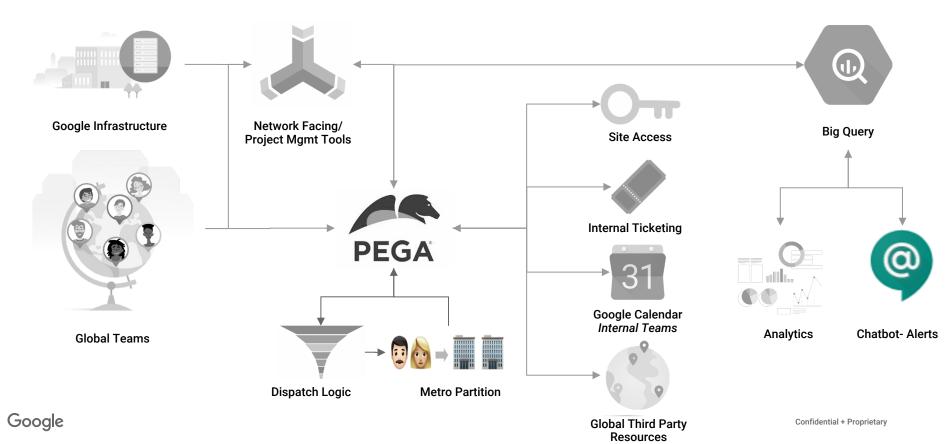
Metro Partition Plan

• Partitioned key Metros into zones of multiple POPs. Assigned resources to specific POPs



- Flexible system: New partition zones and resources can be provisioned quickly.
- Setup alerting and reporting capabilities in case of violation.
- Concept to full solution deployment in 5 business days.

Metro Partition Plan Implementation



So what's next?

- System road map
 - Change management
 - Self serve portal
 - Contact tracing
- Defining and building a response playbook