



The background of the slide features a stylized Earth with a teal and green color scheme, set against a dark space background with stars and orbital lines. The title text is overlaid on this background.

G20 and Space Cooperation to Develop an Accessible, and Self-Sustaining Space Economy

Milind Pimprikar
Founder & Chairman
CANEUS International

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Outline

- 01 Problem Statement
- 02 Vision
- 03 Challenges
- 04 Proposed Solutions
- 05 Actionable Recommendations

Problem

**Current Global Earth Observation does
NOT meet Daily Business Needs**

Problem

- Cell Phone Invented: 1973
 - Global Unique Users: 5.15 billion (**66%** of World Pop.)
 - Market Size: **\$489 Billion** (2022), expected **\$793 Billion** (2029)
- World Wide Web Invented: 1989
 - Users: **59%** of World Population!
 - Amazon + Google Market Cap: **> \$1.5 Trillion!**
- Global Earth Observation (1972): \$3.3 Billion
(2022), expected **\$4.7 Billion** (2028)



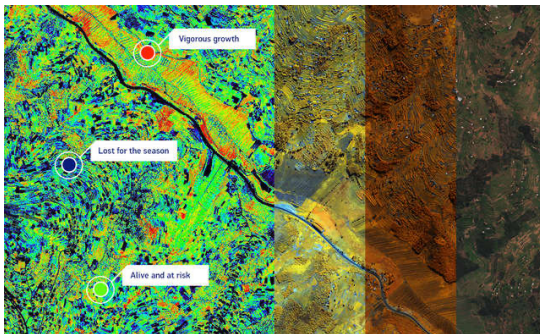
VISION

**Make Earth Observation Impact
Every Human Being Daily!**

Space integrated with other technologies to power an accessible, self-sustaining space economy



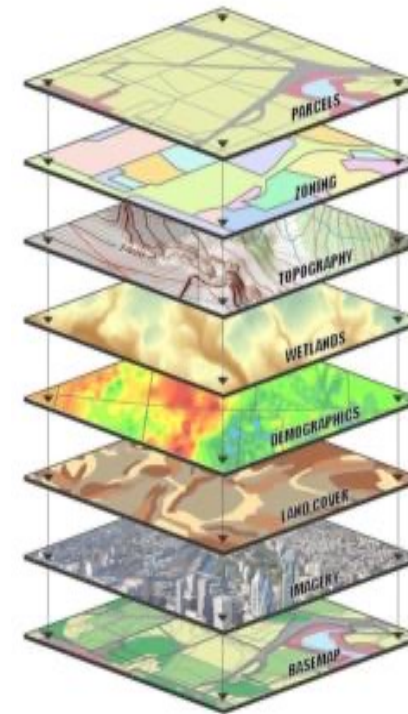
Advance sensors (Edge Computing and IoT)



AI/ML applications



Field data through Crowd source



Geo-intelligence

Data transformation for

- Advisory to Farmers
- Data for Import export policies
- Stabilising commodity prices
- Ensuring Food Security
- Risk transfer (Crop insurance)
- Water management
- Mitigating disaster impacts
- Climate resilience

Enabling Policy Landscape

Public-private partnership

Sustained funding

CHALLENGES



Multiple challenges to facilitate **access to Daily, High Complexity Earth Observation Data and Information**

PROPOSED SOLUTIONS: TO ADDRESS THE CHALLENGES

1. Implement appropriate numbers and types of **Earth Observing satellite constellations**
2. Making daily EO **freely available to all human Beings**
3. Solving the “**High Data Latency**” problem

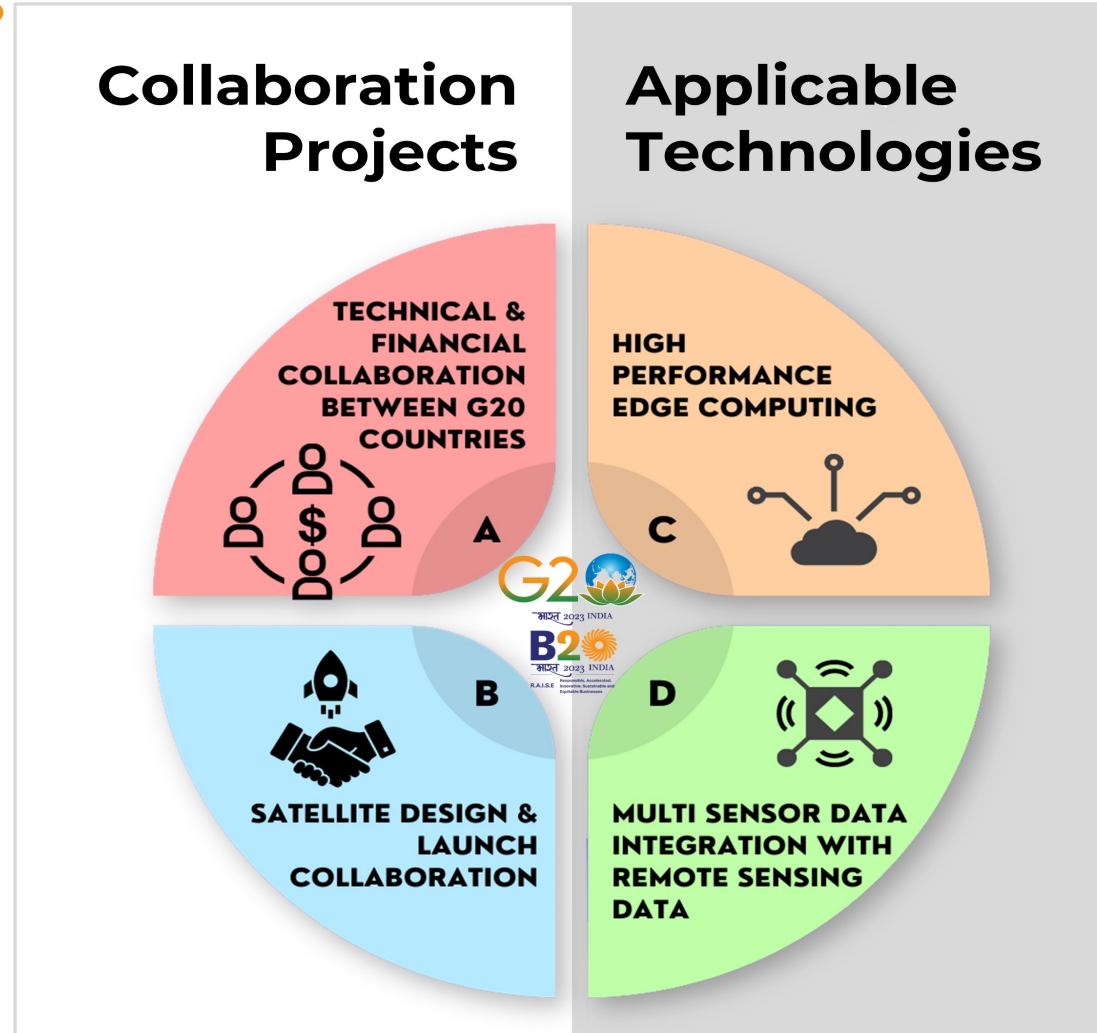
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Proposed Solutions

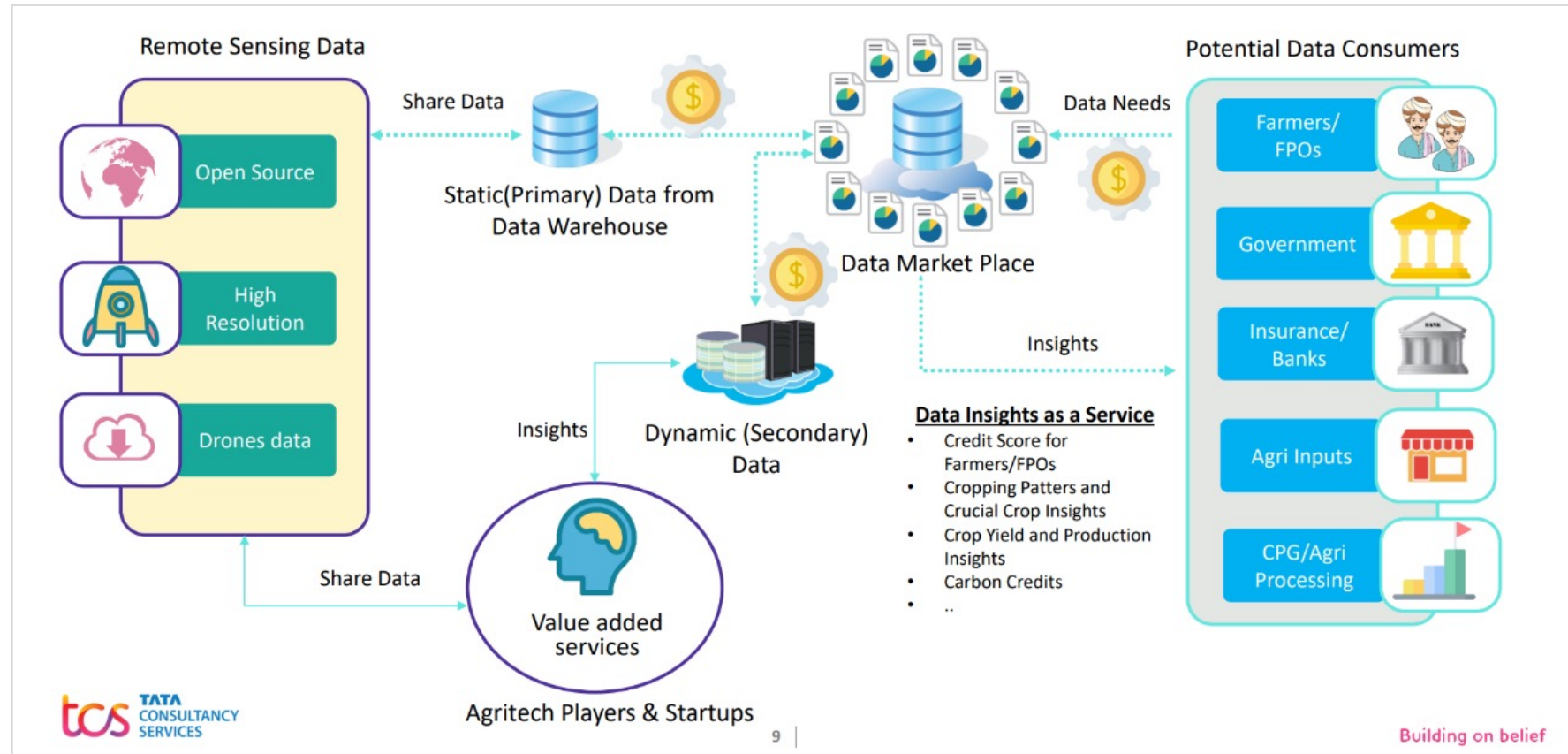


PROPOSED SOLUTIONS: G20 and Global Collaborations

1. Collaborations to **increasing adoption of daily EO data**
2. Collaborations for **developing and launching satellite constellations**
3. Collaborations for **implementation of High-Performance Edge Computing Solutions** to reduce data latency



PROPOSED SOLUTIONS: Digital Highway approach for data-driven ecosystem centric model



ACTIONABLE RECOMMENDATIONS

RECOMMENDATIONS

01

Initiate G20 Collaborative Pilot Projects for building open repositories

02

Make EO data freely accessible to G20 and South-South

03

Develop G20 Use Cases

04

G20 funding for Data-Driven Agriculture & Water Conservation

05

Promote Scaled Up Implementations

06

Evaluate and enable regulatory frameworks



Invitation to COPUOS Members

mp@caneus.org

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