SINGAPORE SPACE INTELLIGENT INTERNET

"Establishment of an "International Space Internet Union".... to spearhead setting up a brand new INTERNET in SPACE..... "

SSII 29th Sep2015

Singapore

KEY IMPERATIVES

- To develop "Space Internet" for all Mankind

- Bring together Men of all KINDs - Stakeholders for Voluntary Cooperation of Mutual Interest

- Global Investors, Telcos, OEMs, international regional intergovernmental organisations, national regulators ...etc

- To focus on how best to use precious SPACE resources to set up an Internet in space

VISION & MISSION

SSII VISION : To pioneer a space-based, smart network providing internet capability to ALL by ALL …… collaborators & competitors

SSII MISSION : To achieve this via an Establishment of International Space Internet Union (ISIU) as a structure:

- To optimise effective usage of Freq.Spectrum and Orbital Real Estate
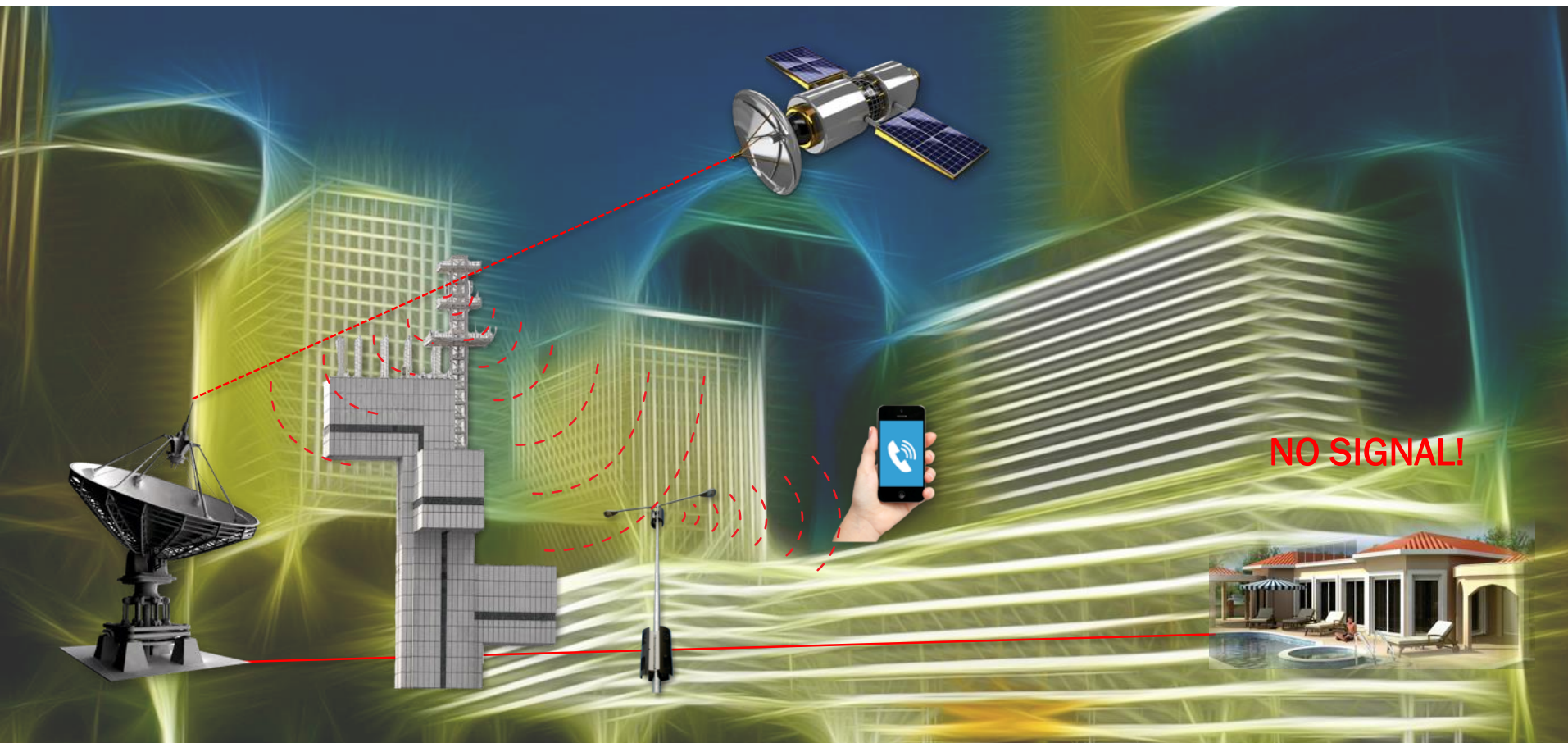
WHAT IS SPACE INTERNET ?

- Space Internet: "VERY VERY large capacity" 600,000 Tbps just based on 6bn smart phones

- no one entity have enough allocated space resources to do it alone .....

- "Silo" VPNs in space are not INTERNET

- piece meal allocation is not optimized and need to pool together the limited space resources

WHY SPACE INTERNET ?

- Today, terrestrial internet connection is not worldwide

- With the surge in mobile, hi-bandwidth, hi-speed data traffic, the ground internet is "choking to death"

- Space Internet is the next era: the Savior

- With smart antenna on mobile platforms

- With smart phones seemless connection from Space Internet

WHY Space Internet ?

Mobile Internet 1.0: Mobile Terminals + Fixed Base Stations & Internet

Evolution to Mobile Internet 2.0

Mobile Internet 2.0: Mobile Terminals + SMAT + Space Intelligent Internet

Ultimate Fruition of Mobile Internet 3.0

Mobile Internet 3.0: Mobile Terminals + Space Intelligent Mobile Internet

A BETTER INTERNET IN SPACE

Need to resolve:

- Cyber Security risks of today's terrestrial Internet

- High Demands in a Mobile Internet era: Mobile terminals; M2M; IoTs; Mobile payment

- Telcos Challenges: Contradiction among traffic, speed; pricing; OTT; Regional ...etc

HOW TO BUILD SPACE INTERNET

- **Standardized** connectivity

- **Augmented** Intelligent

- **Apriori** Secure

ONLY WAY TO BUILD SPACE INTERNET

- Cost-effectiveness, Speed and Scalability

- low cost is derived from large data volume

- fast speed as a result of adequate spectrum

- scalability through an open architecture for interoperability

ONLY WAY is to CONSOLIDATE together all the freq.spectrum & orbital real estate UNDER ONE "ISIU" to discuss together how to achieve to build a truly open Space Internet for ALL

ISIU - a platform for like-minded people to voluntarily come together to brainstorm constructively win-win solutions vs the myriad challenges as to how we all could achieve setting up a future Space Internet for Mankind

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