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The satellite industry is strategically important in every region across the world.

Overall, satellite operators and consumer services represent two thirds of the entire space economy that is valued at roughly US\$ 250 billion in revenues (OECD Space Economy 2014). Satellite sector creates more than 900,000 jobs worldwide, enables independent launch and defense capabilities and puts all regions of the world at the innovative technology edge. Satellites are vital in cost-effectively bridging the digital divide, for the ultimate benefit of people everywhere.

The satellite community stands unified in making this Global Vision 2020 a reality.

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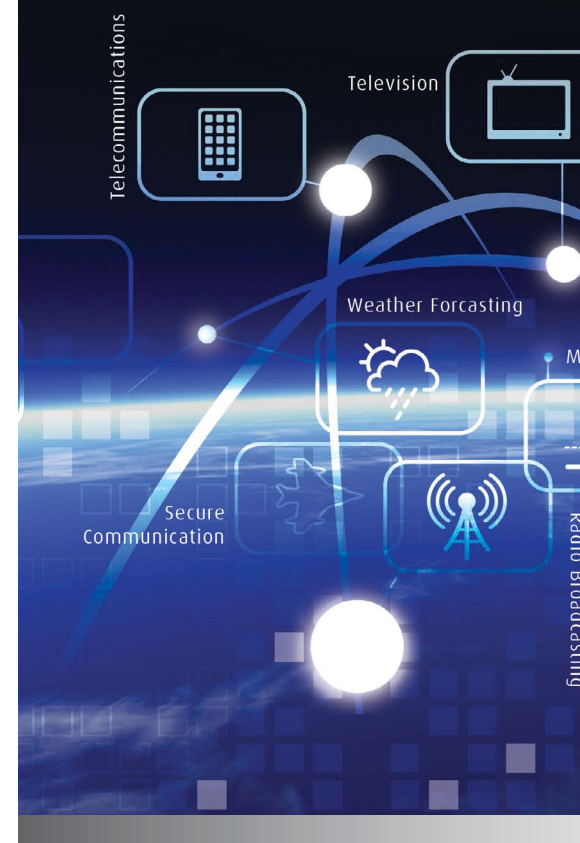


www.apsc.or.kr



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Satellites. A Vital Infrastr



Satellites...A Vital Infrastructure

Did you know that...?

- Billions of people around the world rely on satellite infrastructure every day to communicate, travel, get informed and entertained
- Since the eighties, the €300 billion global TV industry relies on satellites to gather and distribute regular programming as well as live coverage of major political, social and sports events like the Olympic Games, the FIFA World Cup or the Eurovision Song Contest
- The daily operations of all telephony and Internet networks. (for example used for emergency services radio, utilities such as energy networks, financial markets and the banking industry, data centers) all rely on precise timing information received by satellite
- Rescue and relief efforts rely on satellites during emergency and disaster situations such as the 2015 Nepal earthquake, the 2013 Typhoon Yolanda in the Philippines or the 2015 cyclone in Vanuatu
- Precision agriculture, fishery policy tracking, weather predictions all rely on satellites
- Satellites connect people to the Internet in urban, suburban, rural or remote areas with minimal infrastructure
- Satellite technology provides backhaul services to 2G/3G/4G mobile operators for rural areas across Africa, Europe and Asia
- Peacekeeping missions around the world use secure communications provided by satellites
- Internet connections on planes, cruise ships and offshore oil platforms are by satellite
- A large proportion of technical or hardware innovations have benefited from high-technology solutions developed and used in space, such as electric propulsion, solar panels, atomic clocks, regenerative batteries, insulation material, etc.

Global vision 2020...

- Everyone in the world can enjoy broadband connectivity & access a next-generation service
- Video content will be delivered by hybrid networks that leverage the strengths provided by wired, wireless and satellite technologies together
- Most people will experience media & TV viewing and video screening at home in HD and ultra-HD & on multiple sets
- Satellites will deliver very high data rate services in 'broadcast / multi-cast' mode to radio access points to contribute to:
 - ▶ direct delivery of linear or interactive TV / IPTV services
 - ▶ extension of the reach of 3G/ 4G / RLAN / future 5G wireless access networks for mobile users
- Reliable & resilient satellite monitoring can contribute to IoT remote and real-time asset management or telemetry everywhere
- Satellite imagery will assess the energy lost in all big smart cities, contributing to a resource-efficient world
- In crisis situations, security services will have reliable access to all the information they need, when & where they need it
- Remote facilities, energy plants & grids, & industrial processes will be monitored 24/7 by satellites
- Satellites will lead the global effort to establish internationally accepted modeling & forecasting systems for climate change using satellite information
- Satellite services will remain a non-intrusive, instant infrastructure. It does not harm protected areas or disturb delicate ecosystems
- Maritime and aeronautical users will have access to images, data and voice communications around the globe via satellites, allowing for ultimate advanced traffic monitoring and management, even in the most hostile Polar environment