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# **New Global Governance for a Second Space Age**

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**Confederation of Indian Industry**

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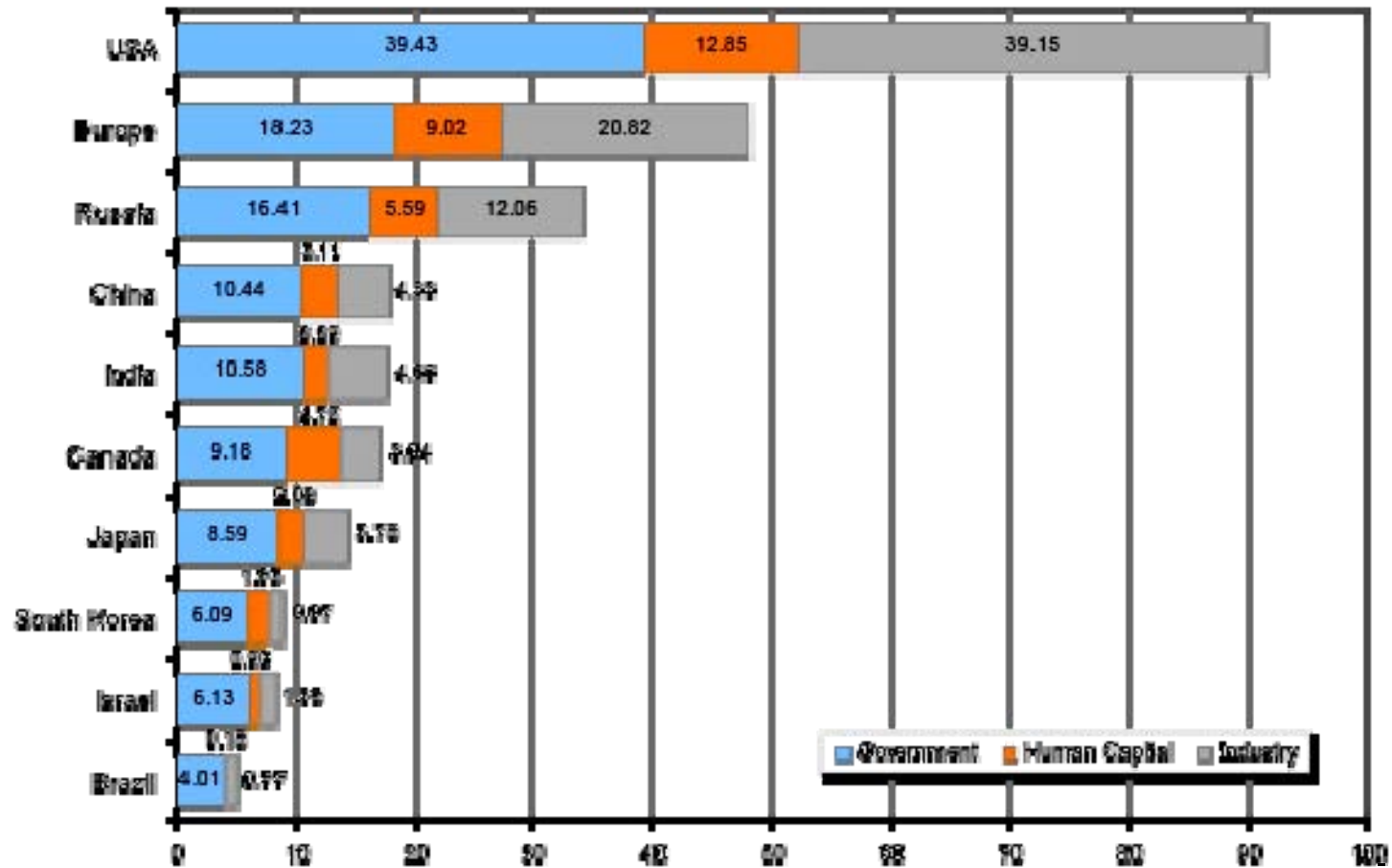
# Global Space Industry

- Over U.S. \$ 100 Bn industry
  - Satellite Manufacturing
  - Launch Service
  - Imaging Solutions
  - Navigational Services
- Evolving products:
  - Zero -g Manufacturing
  - Mining & Extraction
  - Space Tourism
  - Pharmaceutical Production



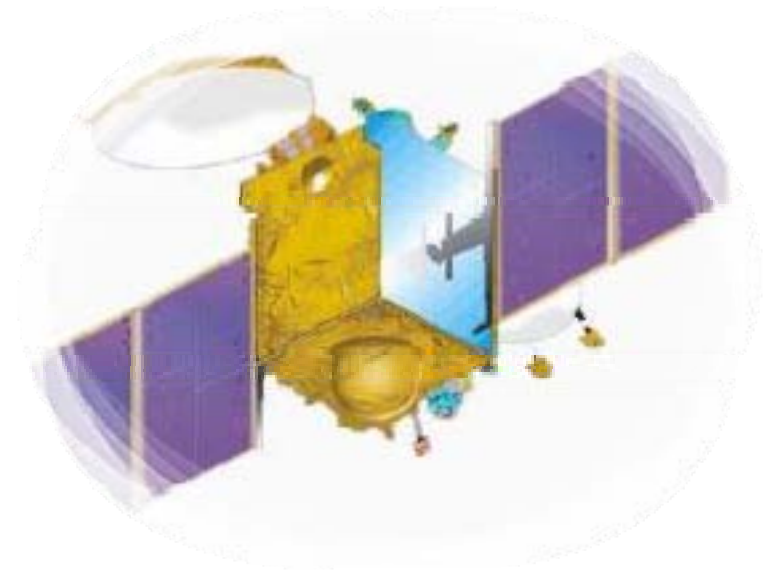
# Key Players in Space

## Space Competitiveness Index



# Indian Space Programme

- Application oriented for societal & national development
  - Tele-medicine
  - Tele-education
  - Broadcasting
  - Remote connectivity
  - Business networks
  - Mapping natural resources
  - Disaster management support
  - Regular weather services



# International co-operation

- Contribute towards:
  - Sustainable global economic growth
  - Scientific advancement
  - Social development
- Help build stronger relationships between countries
- Expand frontiers of human knowledge
- Information / Knowledge sharing
  - E.g. Metrological Data



## 2<sup>nd</sup> Space Age - Characteristics

- Reliance on space infrastructure
- Increased commercial activity:
  - ‘land-based’ but ‘space-enabled’
- Internal security, long-duration space exploration
- Cost reduction strategies



## 2<sup>nd</sup> Space Age – New Approach

- Multilateral and bi-lateral co-operations
- Nonproliferation of critical technologies
- PPPs to reach benefit to all
- Better transparency on space strategy
- Space debris management
- Frequency spectrum & available orbital slots



## 2<sup>nd</sup> Space Age – Governance

- Private sector participation
- Fine-tuning of existing 'Space Laws'
- A non-intrusive international body to:
  - Enable increase access to space
  - Promote interdependence & inclusion
  - Encourage entrepreneurship with social conscience
- Leadership of current space faring nations





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