

# Roles of a space agency



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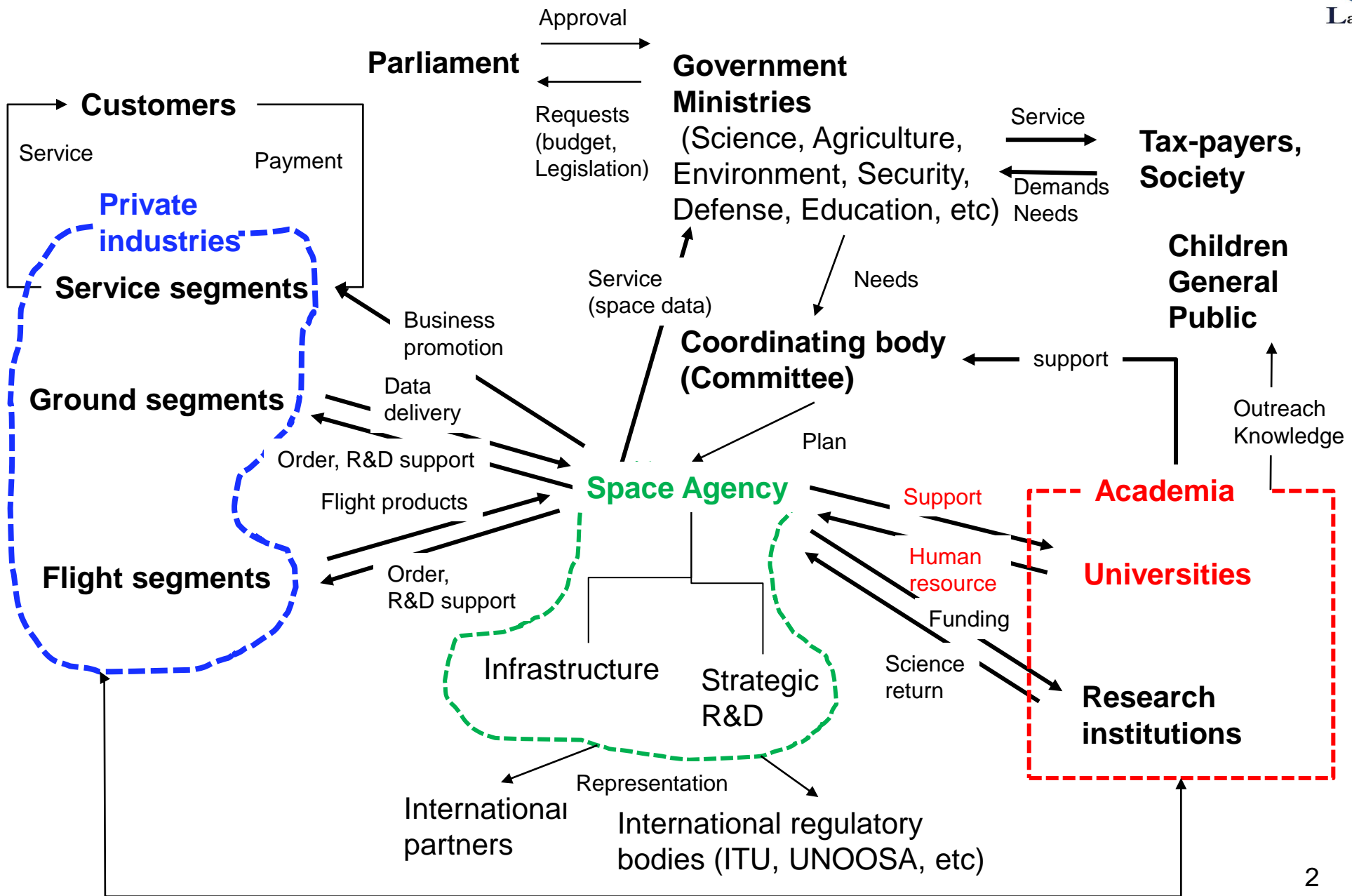
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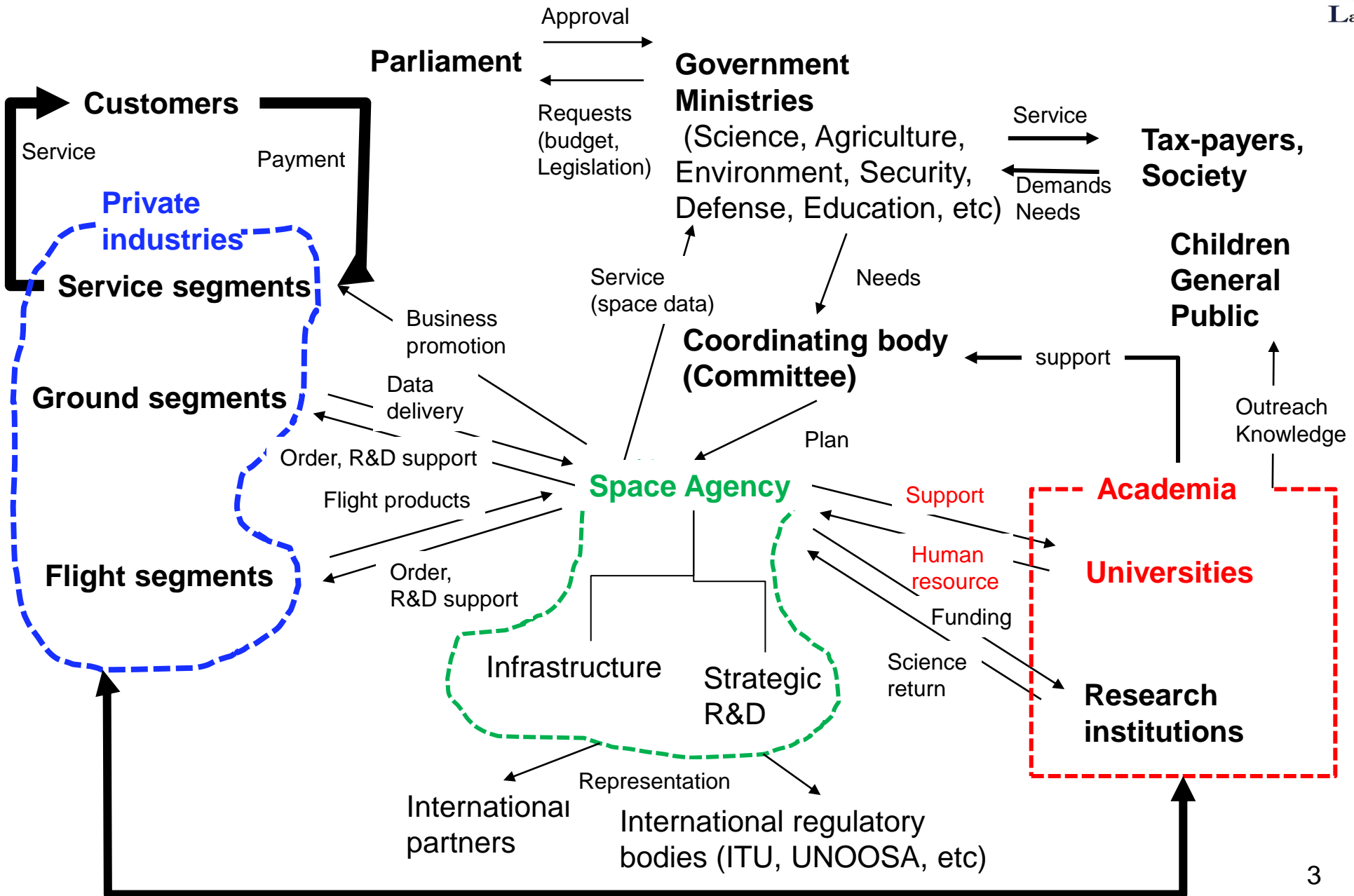
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# Space agency roles in matured space ecosystem

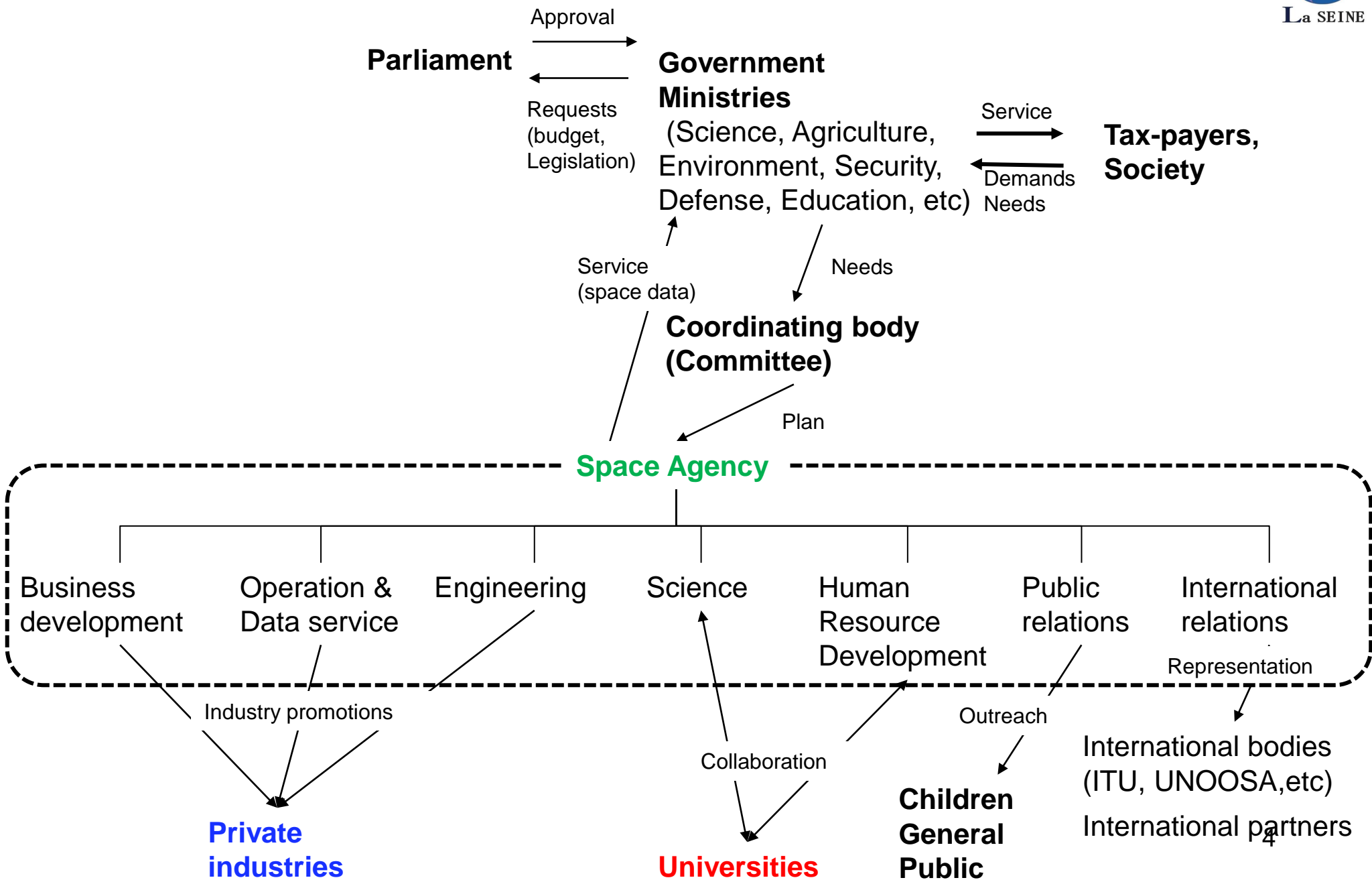


# Space agency roles in **very** matured space ecosystem



Industry-academic collaboration(R&D, human resource exchange)

# Space agency roles of **infant** space ecosystem



# Very matured space eco-system

- Space is *NOT* special
- Infrastructure (platform) to do broad service
  - Similar to tele-communication, highway, etc.
  - Bring benefits to various sectors
- Role of government (space agency)
  - Formulating requirements, Ordering, Supervising the space-based service that should be done by the government (defense, disaster management, etc.)
  - Strategic investment for future (>10 years)
    - R&D at industry and research institutions
    - Support higher education at universities for future human resource
  - Maintenance and servicing of massive infrastructure difficult to be kept by the private sector
  - Promotion of private industries to generate further wealth
  - Relationship with foreign government
  - Regulation and coordination to ensure the fair competition and to ensure the benefit goes to wider sectors



Space agency is a restaurant madam

# Very infant space eco-system

- Space is *SPECIAL*
- Benefits of space activity is not clear to tax-payers and general public
- Space agency must do everything
- Role of government (space agency)
  - Human resource development
    - Collaboration with universities
  - Industry promotion
    - Build private industry bases the government can order the flight product, data service in future
  - Research promotion
    - Build domestic R&D base
  - Infrastructure building
    - Something that can be used up to near/middle future
  - Making space policy and space plan
  - Outreach
    - Gain the people's support