Commercialising the ISS



Our approach

Step 1 Step 2 Step 3

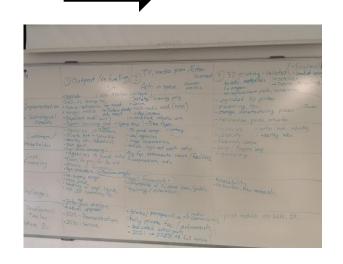
Idea generation

Idea pooling

Idea development







Three main concepts

TV / media / **ISS** → **Servicing**, Refueling, **3D Manufacturing** entertainment, Resupplying **Art in space**

In depth analysis of Entertainment concept

Implementation

- Safety considerations/policies
- Media person training
- Communications HD / data bandwidth
- Separate Multi-Media Module (MMM)
- Video / cameras installations
- Robotic arm / free flyers (Spheres / Cimon) for filming/assistance

Future evolution

- Fully private facilities / astronauts
- Global perspective -> indiv. / commissions
- Phase 1 = 2020, Phase 2 = MMM / full service ~2023-25

Customer and Financing

Customers:

- Media corporations
- Large corporations
- Advertisement agencies
- Artists, high networth individuals

Financing:

- Pay for astronauts' hours / facilities
- Media corporations / individuals

Challenges

- Updated legal framework
- Push-back from institutional / science / taxpayer, compromise

Thank you!

	Outpost / refueling -resupply station	TV / media / entertainment Art in space	Advanced manufacturing Advanced materials Organs Replacement parts / maintenance Satellites Debris recycling Jo food printing Modules printing Fragrances / smells
Implementation & technological aspects	Small-scale testing facility on-orbit servicing Hydroponic food harvesting module Storage room / module Microbes to grow protein-production Cultured meat Car-wash / space-wash / mending shields spacecrafts Depot / servicing	Safety Media training Communications HD / data bandwidth Separate multi-media module (MMM) Video / camera's Robotic arm / free flyers (Spheres / Cimon /) Lottery	Upgrade of 3D printers Processing / supporting facilities Storage / transportation of materials / Supply chain Merchandises, goods, artworks
Customers / stakeholders	Agencies Commercial companies Wealthy individuals Food companies or other providers Countries / governments Fuel production companies	Media corporations Large corporations Advertisement agencies Artists, high networth individuals	Medical companies / hospitals Agencies Future space colonists Research communities Industries for optical fibres, materials, Wealthy individuals
Cost / financing / revenue generation	Agencies to fund initial Users to pay for the use Consortium / alliance of companies System providers Premium arrangements	Pay for astronauts' hours / facilities Media corporations / individuals	Sponsorship
Future evolution / roadmap / Development timeline	Gradual upgrade of ISS modules / parts Refueling station 1 demonstration 2025 / full capability 2030	Fully private facilities / astronauts Global perspective -> indiv. / commissions Phase 1 = 2020, Phase 2 = MMM / full service -2023-25	Print modules, airlocks
Challenges	Water supply Mass production Handling of fuel / liquids / explosives / combustibles Common interfaces / standardization Inter-government dialogue	Updated legal framework Push-back from institutional / science / tax-payer, compromise	Updated legal framework Scalability Resources / raw materials