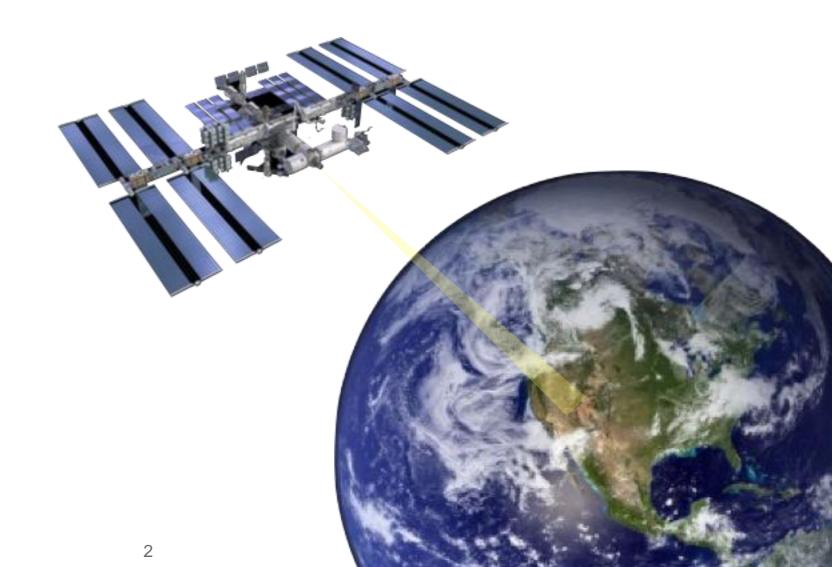




Building / Launching / Operating first ever high definition, streaming video platform of planet Earth from space on the International Space Station (ISS).





Please visit the Urthecast website for an overview video clip of this project; <a href="http://urthecast.com/">http://urthecast.com/</a> : " Urthecast: A brief overview"





## **Overview**

Exclusive agreements with RSC Energia and Roscosmos to install UrtheCast camera on the ISS

- Russian module
- Energia to provide pre-launch, launch, installation, and downlink
- UrtheCast to provide cameras, ground station solution, and data
- Launch scheduled for late fall of 2012
- Cameras being built by RAL
- Data handling hardware built by SEA in Bristol
- Technical Management provided by MacDonald Dettwiler and Associates in Canada





## **HOW IT WORKS**

Cameras →

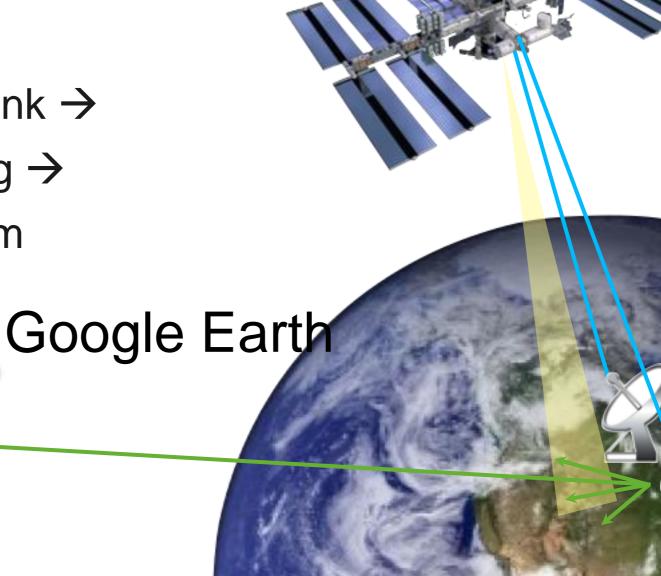
Compression Unit →

On-board Computer → Downlink →

Ground Stations → Processing →

Cloud Storage → Web Platform







# **The Cameras**

# **Medium Res Camera**

- RALCAM3 existing design
- Build-to-print solution for the ISS
- Fixed nadir viewing
- Push-broom imaging
- 47 km swath at 5.4 meter GSD
- RGB channels + NIR



# **High Res Camera**

- Custom built
- On a point-able platform.
- 1.1 meter GSD
- 3,048 x 4,560 pixel detector
- 5 km x 3.4 km field of view
- 3.25 fps video and still shot mode.
- RGB Bayer filter

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Please visit the Urthecast website for an overview video clip of this project; <a href="http://urthecast.com/">http://urthecast.com/</a> : "Urthecast 3D Animation"





# **WEB PLATFORM**

### **Geo Reference Map of Earth**



Dynamic, interactive, multi-source, and frequently refreshed data

### **Open Platform for Developers**



Ability to create applications for education, gaming, advertising, environmental, current events, etc.

Pioneered by Apple and Facebook

### **Social and Mobile Media Site**

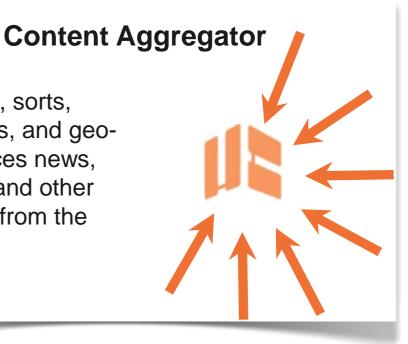


Users able to create, upload, share, and interact with their own and others' content anywhere, anytime



flickr

Collects, sorts, compiles, and georeferences news, media, and other content from the web



The **global** repository of real-time, **user-driven**, geo-tagged **media content**.



## **BUSINESS MODEL**

#### **Earth Observation Data Sales**

Scenario - A city pays for a comprehensive annual urban change map

Customers - Remote sensing, Governments

UrtheCast will be the only true video from space

#### **Earth Video Sales**

Scenario - A news group pays for exclusive footage of a natural disaster unfolding

Customers - CNN, BBC, Fox, Al Jazeera







**UrtheCast** will be the exclusive source

#### **Web Advertisements**

Scenario - Starbucks pays to have logo on all their locations in the video stream

Customers - Starbucks, McDonalds, Coca-Cola



UrtheCast will have tremendous web traffic

### **Application Platform Sales**

Scenario - Social gaming and commercial apps

Customers - Apple, Blackberry Android via UrtheCast open Application Program Interface









**UrtheCast** will have truly unique content

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