



اليه سات yahsat

## Technology Innovation in Satellite Connectivity

*Masood M. Sharif Mahmood, CEO*

April 29th, 2015

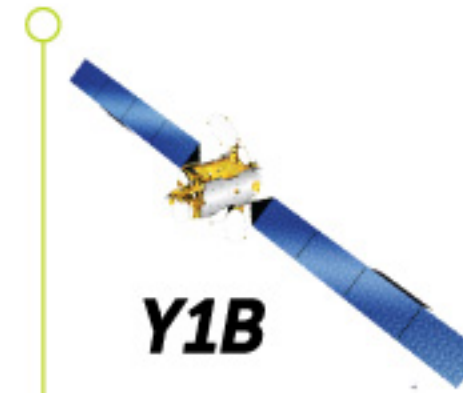




# 2007 2008 2009 2011 2012 2014 2015



Y1A



Y1B

- YahService receives FSA for the AF NMS

- YahClick service launched



- YahClick acquired over **34,000** subscribers

- Yahsat announced plans to launch a third satellite, **Al Yah 3**



- Yahlive announced that its reach into the Farsi speaking community had grown to over **25 million**

- YahService delivers MILSATCOM solutions to ground, air and naval platforms



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YahService

Managed Solutions | Government Capacity

YahClick

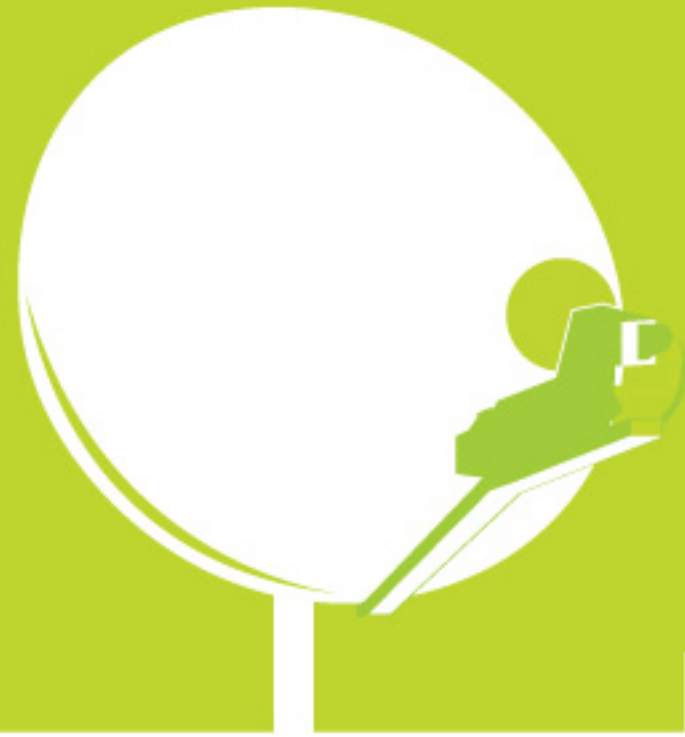
Home Solutions | Business Solutions | Transportable Solutions

YahLink

IP Trunking Solutions | Corporate Networking Capacity | Backhauling capacity



**Quick and  
Easy Deployment**



**Increased  
Bandwidth**



**Wider  
Coverage Area**



**ENHANCED ABILITY TO SUPPORT  
HUMANITARIAN EFFORTS**

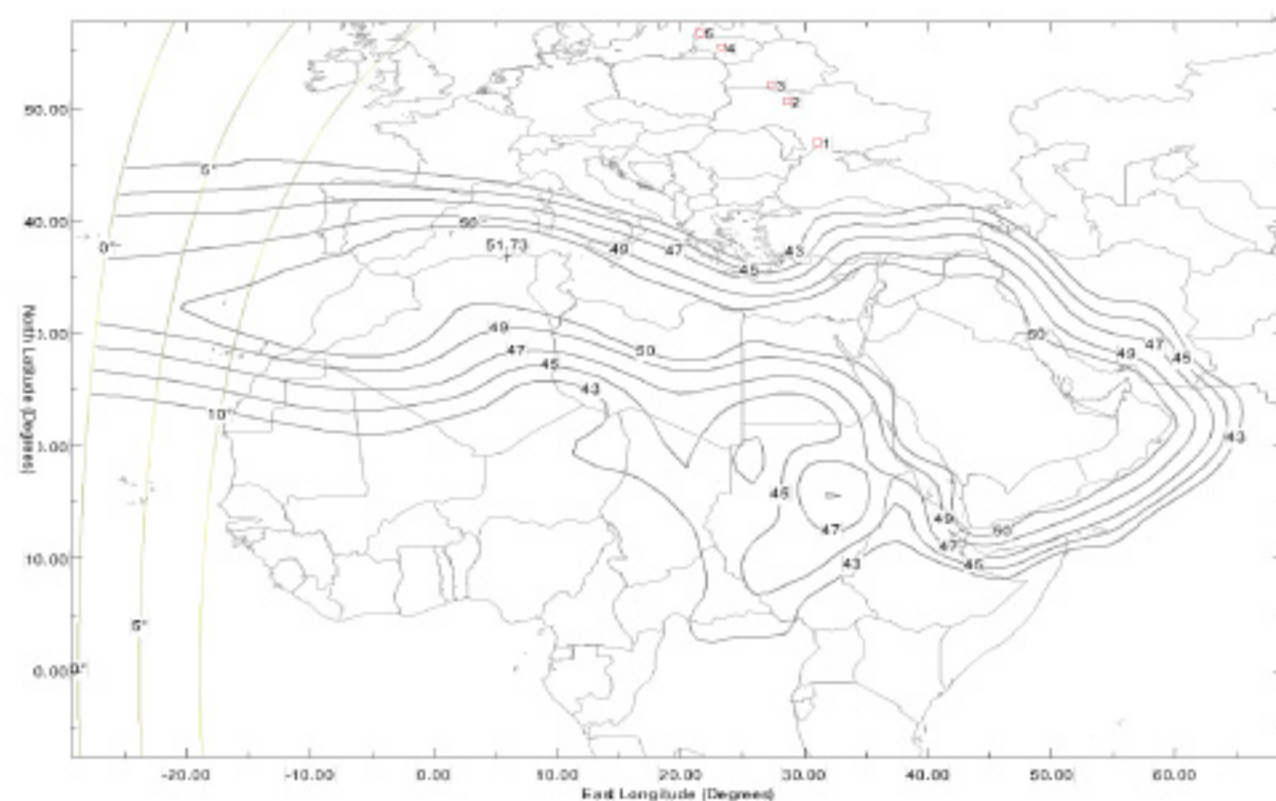




# KA-BAND - DEVELOPMENT IN SATELLITE TECHNOLOGY



## Legacy Satellite Technology

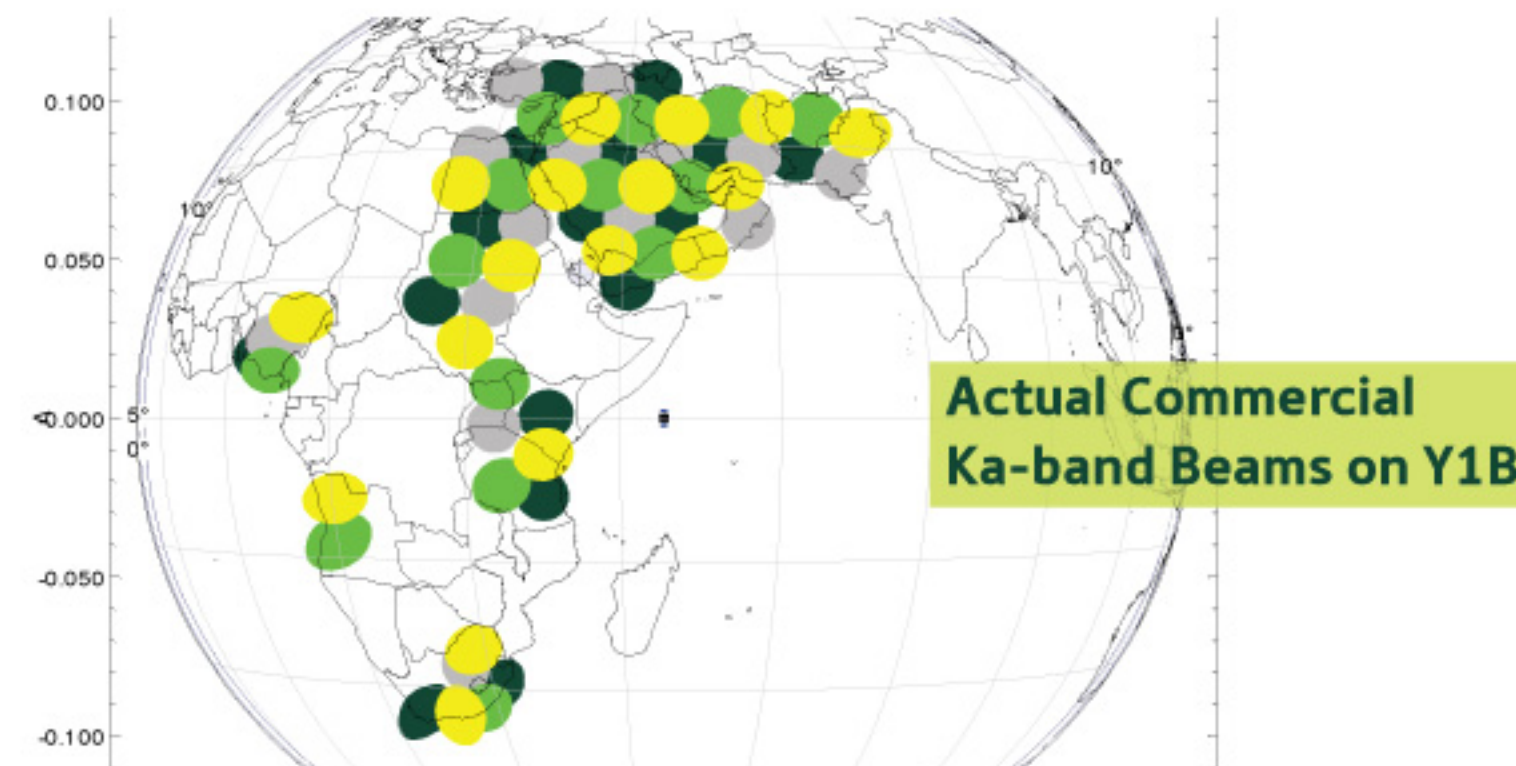


- Continental / regional coverage
- Ideal for broadcast/DTH and supports VSAT networks (e.g. mesh)
- Simple but effective in reaching large areas

Typical Ku-band satellite supports only 1.2Gbps of throughput



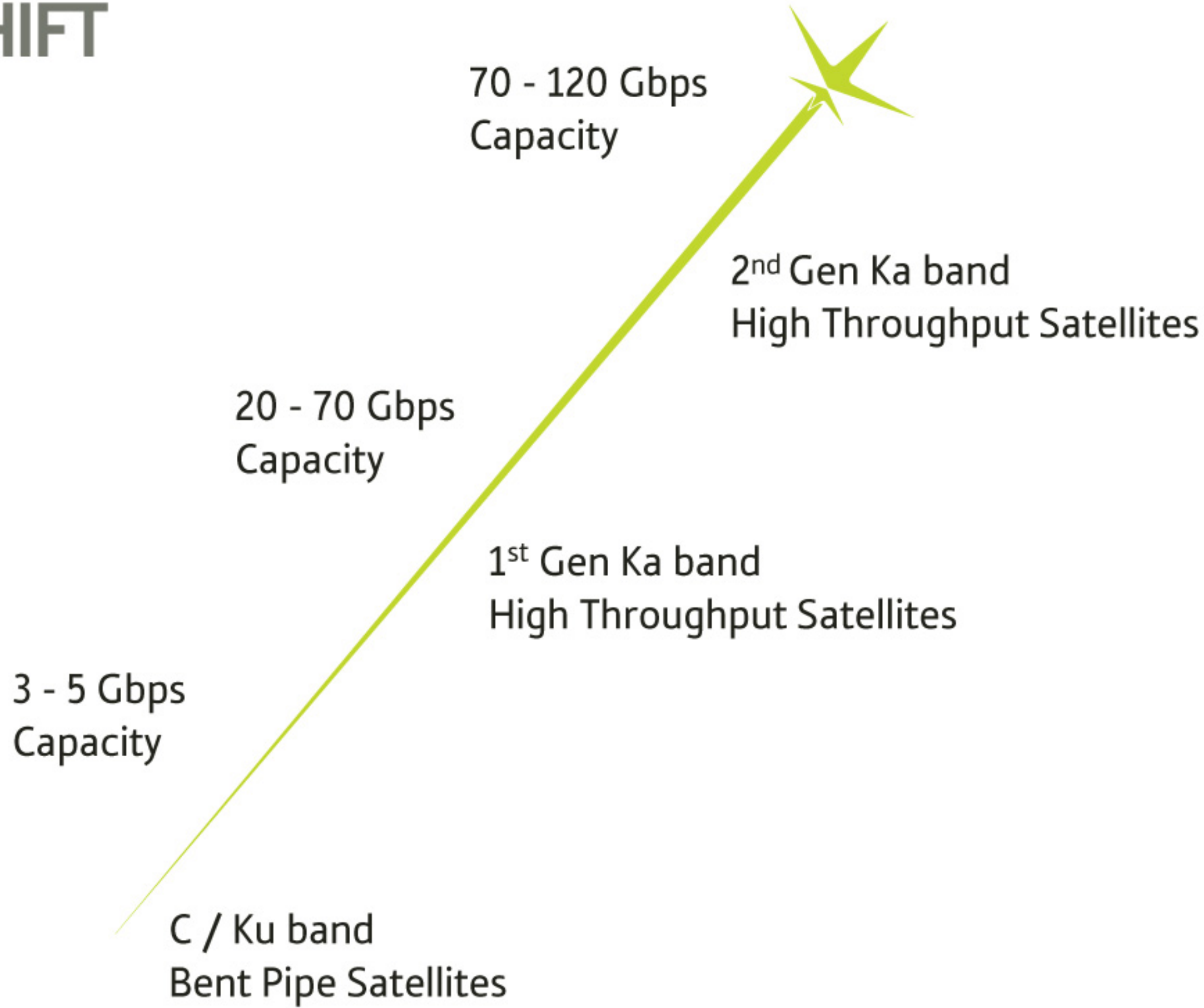
## Ka-band Satellite Technology



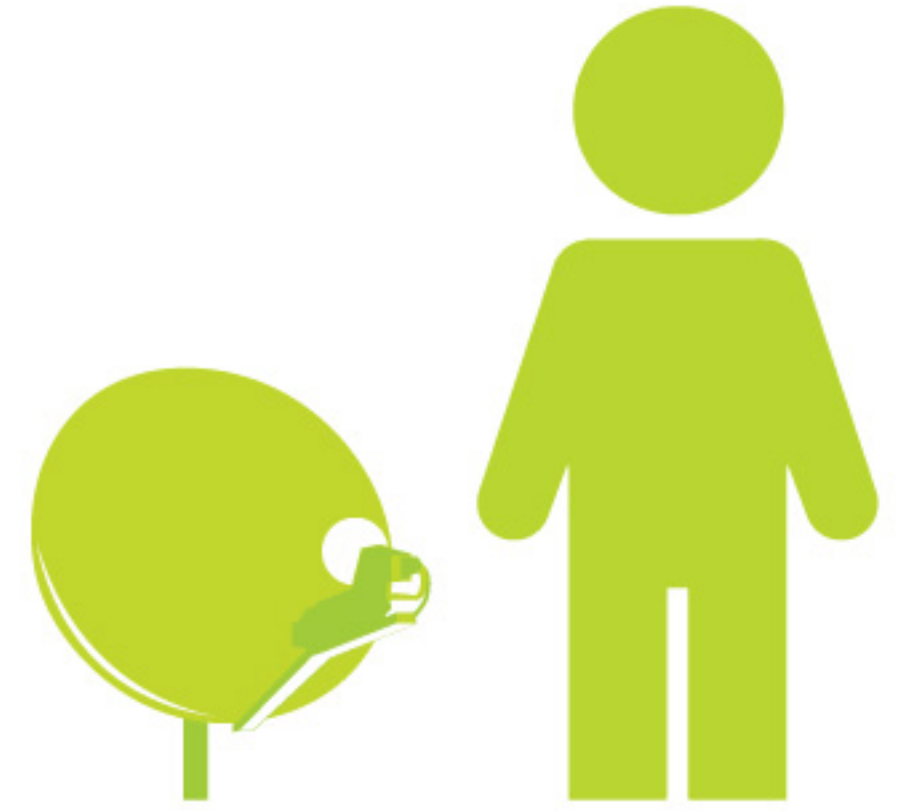
- Surgical beam placement
- Complex but highly efficient spectrum usage
- Purpose-built for broadband access & IP applications across rural / underserved households and businesses
- Leverages economies of scale when covering high number of markets

Typical HTS throughput typically greater than 50 Gbps

# THE PARADIGM SHIFT



**Ka band systems**

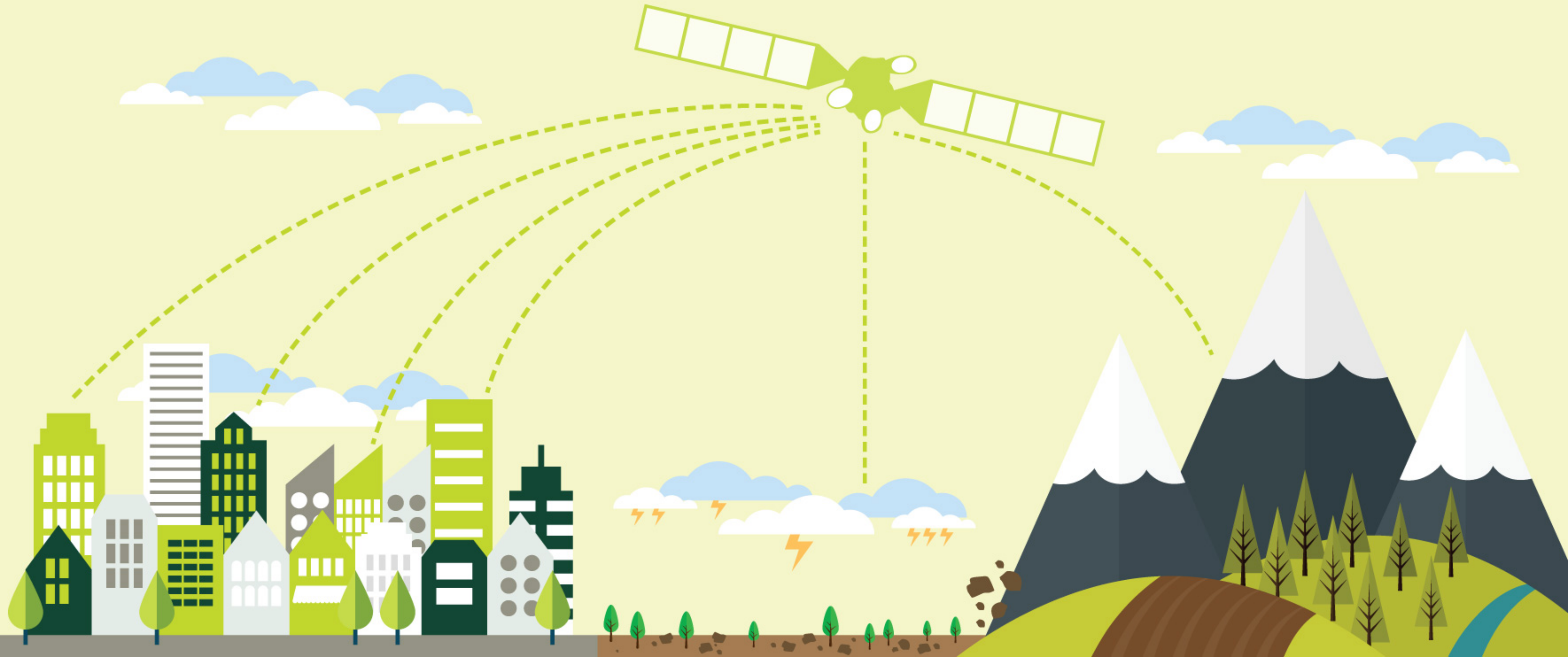


**Existing systems (C & Ku band)**



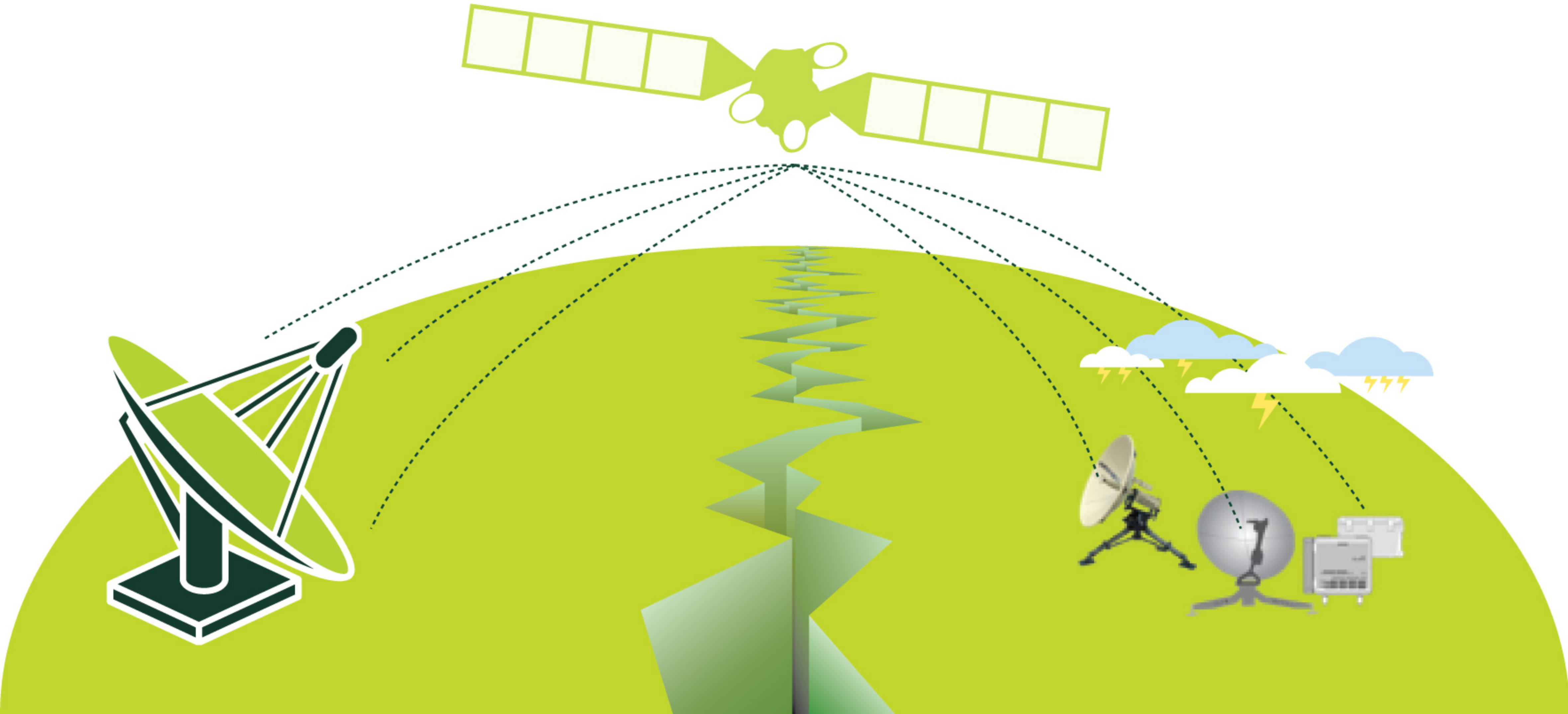


# RELIABLE COVERAGE FROM URBAN CENTRES TO REMOTE LOCATIONS IMPACTED BY CONFLICT OR NATURAL DISASTERS





# EASY DEPLOYMENT IN DISASTER SITUATIONS





# PROVIDING CRITICAL INFRASTRUCTURE TO CONNECT COMMUNITIES



## COMMERCIAL ENTITIES



Central Bank of Afghanistan



National Identity Program of Nigeria



Revenue Authority of Uganda



Universal Service & Access Agency,  
S. Africa



National Drilling Company, UAE



Abu Dhabi Ship Building



Co-op & Agricultural Credit Bank,  
Yemen

## COMMUNITIES



Kenya E-health mini clinics  
(36 commissioned to date)



BBC broadcast hostage  
situation in Kenya



E-learning system and  
education on the wheel  
e.g. Pakistan



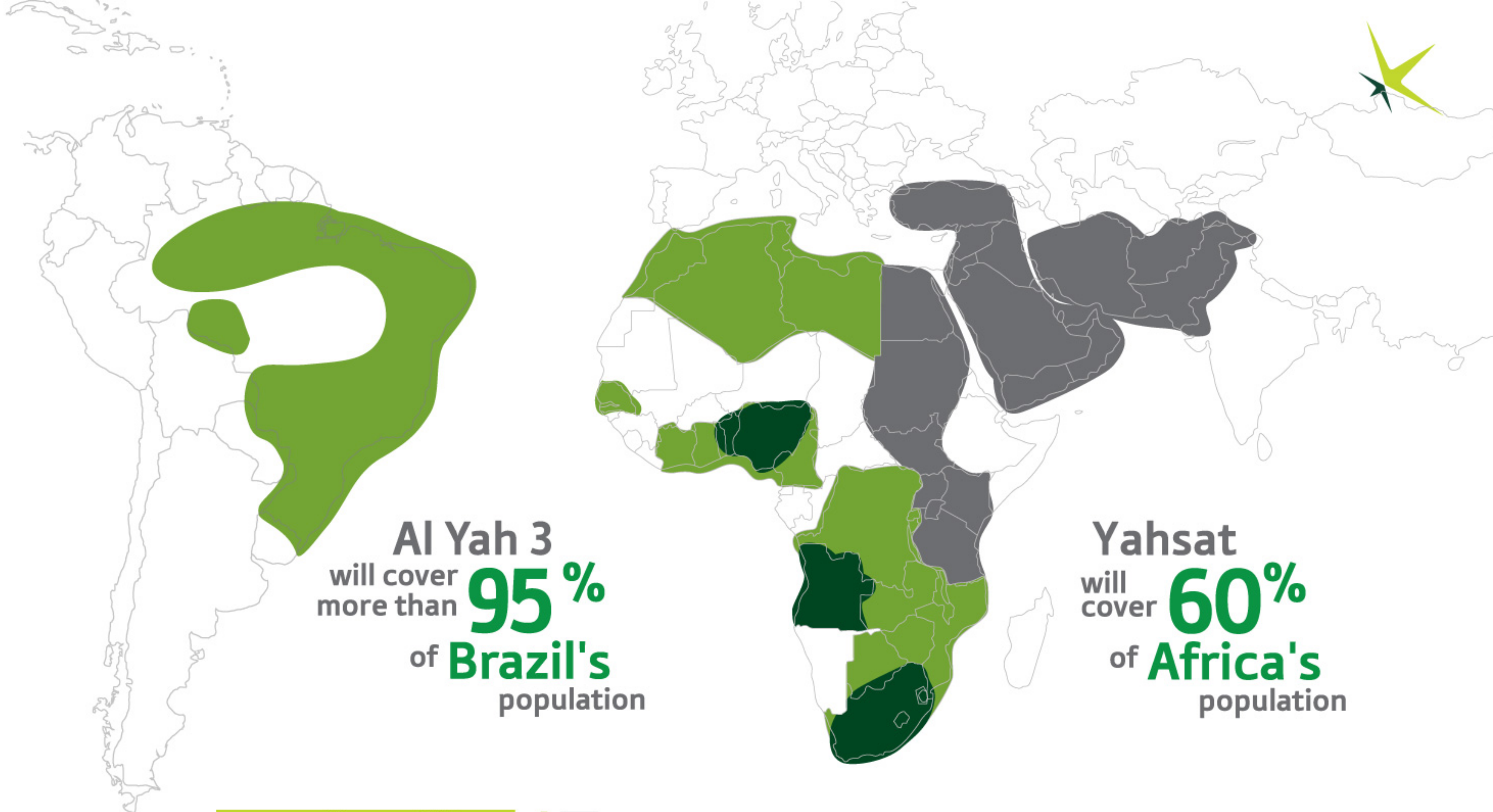
United Nations Children Fund,  
World Food Program, UNOCHA,  
OHCHR e.g. Yemen, Pakistan,  
Afghanistan



100 channels to > 25Mn  
households

*Yahsat provides critical infrastructure to a variety of organizations and connects communities*






Al Yah 3  
will cover  
more than **95%**  
of **Brazil's**  
population

Yahsat  
will cover **60%**  
of **Africa's**  
population

# KA-BAND COVERAGE

	Y1B	AL YAH 3
Contractor:	EADS Astrium & Thales Alenia	Orbital Sciences Corporation
Launcher:	ILS Proton	Arianespace
Planned Launch:	April 2012	Q4 2016
Orbital Location:	47.5° E	20° W
Lifetime:	15 Years	15 Years
Payload: (Ka-band):	56 Spot beams	58 Spot beams
Gateway Locations:	Europe and UAE	Brazil and Europe

-  Y1B KA-BAND COVERAGE
-  AL YAH 3 KA-BAND COVERAGE
-  BOTH Y1B & AL YAH 3 COVERAGE

Maps are for illustrative purposes only to show general commercial Ka-band coverage areas. This does not depict exact service locations.