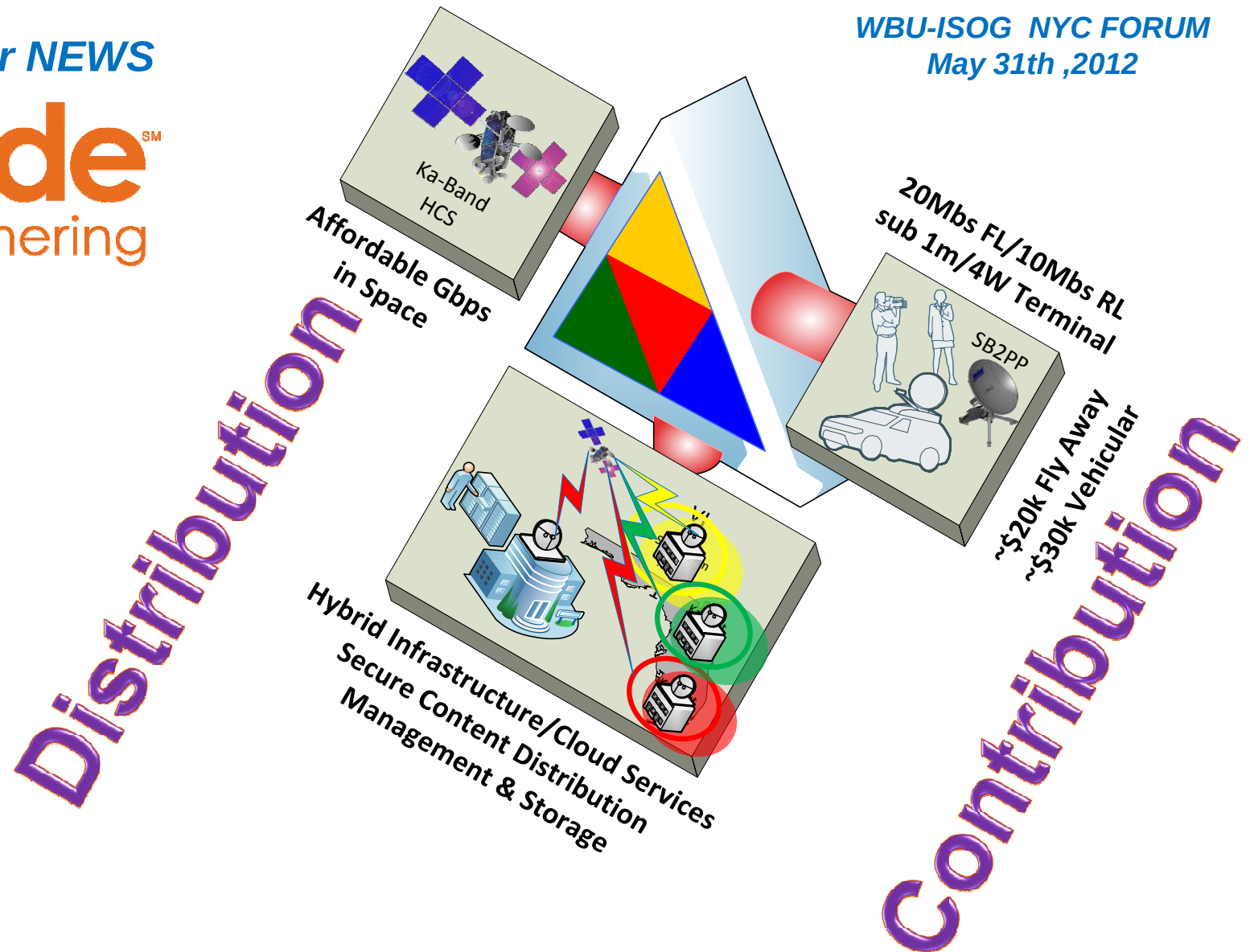


Ka-Band for NEWS

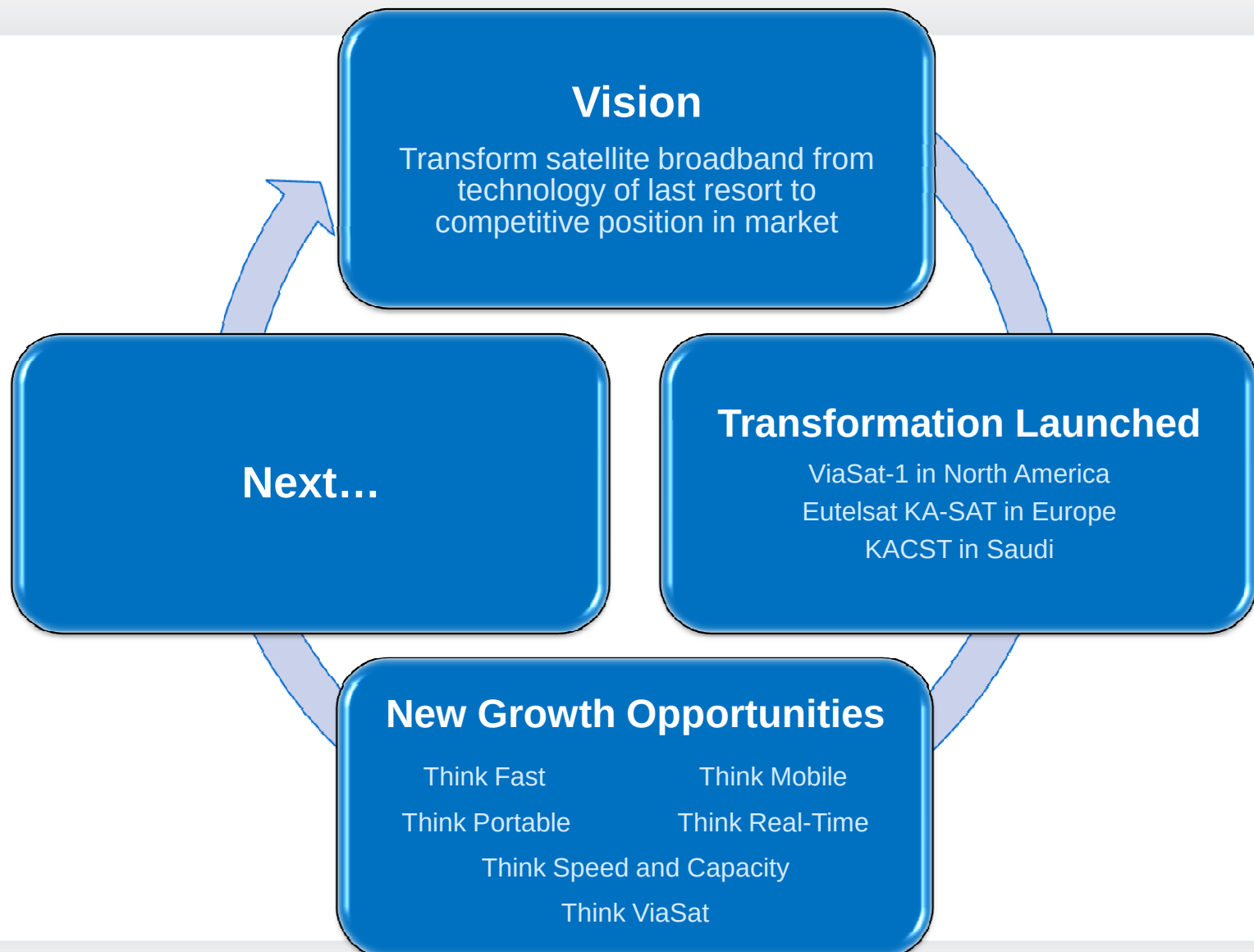
exedeSM
newsgathering

WBU-ISOG NYC FORUM
May 31th ,2012

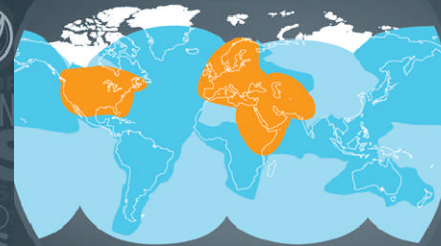


THINK BOLD

THINK VIASAT



THINK
OF JOINING THOSE WHO MADE THE CHOICE FOR
SPEED AND CAPACITY



"We have aircraft flying live missions delivering HD full-motion video from 12-inch antennas."

—Jim Herren, USSOCOM

“ViaSat mobile broadband provides our Gulfstream BBML customers with the highest speed, best value, and continually improving network coverage & availability.”

—Jim Dempsey, Gulfstream

-28

CONTROL EXE

US

IP TRANSPORT

EMC-12N

AIR FORCE

YONDER

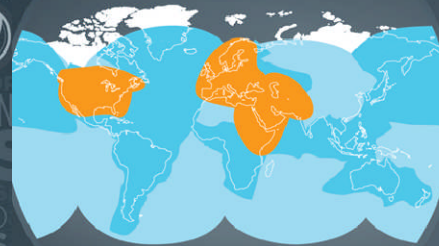
ViaSat.

VIASAT INVITES YOU TO
THINK BOLD

THINK
OF PARTNERING WITH A COMPANY
BUILT FOR BREAKTHROUGHS —THAT'S
VIASAT



THINK
OF JOINING THOSE WHO MADE THE CHOICE FOR
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THINK

OF JOINING THOSE WHO MADE THE CHOICE FOR

SPEED AND CAPACITY

Mobile capacity to serve more simultaneous users, missions, and fleets

"We have aircraft flying live missions delivering HD full-motion video from 12-inch antennas."

—Jim Herren, USSOCOM

"ViaSat mobile broadband provides our Gulfstream BBML customers with the highest speed, best value, and continually improving network coverage & availability."

—Jim Dempsey, Gulfstream

YONDER C-17

THINK OF A NETWORK THAT DELIVERS INTERNET SUPER FAST

“

SATELLITE INTERNET just got a lot more attractive.”
— CNET 01/19/2012

“

ViaSat now delivers a BROADBAND EXPERIENCE similar to cable.”
— AllenBabelTech



12 MBPS

EXPAND YOUR MARKET



CONVERT MORE CUSTOMERS TO SATELLITE

ADVANCED ACCELERATION FOR FASTEST ONLINE RESPONSE



4X FASTER THAN AVERAGE SPEEDS AROUND THE WORLD

THINK ENTERPRISE PERFORMANCE THAT'S TRULY PORTABLE

“

(Exede) sends HD VIDEO from the world's most remote locations at RECORD SPEED.”
— Zach Honig, Engadget



LIVE SHOTS IN HIGH DEF



POWERFUL, COMPACT TERMINALS



ABUNDANT BANDWIDTH FOR EVERYONE IN THE HOT ZONE



AVAILABILITY WITHOUT BOOKING



1-PERSON SETUP IN MINUTES



THINK WHAT YOU CAN DO WITH EXEDE MOBILE

“

We're on track to launch the airline industry's BREAKTHROUGH IN-FLIGHT BROADBAND SERVICE this year.”
— Robin Hayes, JetBlue



FAST, CONGESTION-FREE INTERNET FOR ALL

“

Exede is equally COMPELLING FOR THE JET SET.”
— Ken Pyle, Vodi



REAL-TIME COLLABORATION



STREAM VIDEO



SHARE PHOTOS



SOCIAL MEDIA



EMAIL



THINK PRECISION TRACKING IN REAL TIME

“

This CAPACITY INCREASE allows for more frequent and larger message traffic, and cuts the system's refresh rate from MINUTES TO SECONDS.”
— Claire Heining Schwier, US Army



THE NEW US ARMY STANDARD FOR BLUE FORCE TRACKING 2



INSTANT PLI REFRESH AND IP MESSAGING

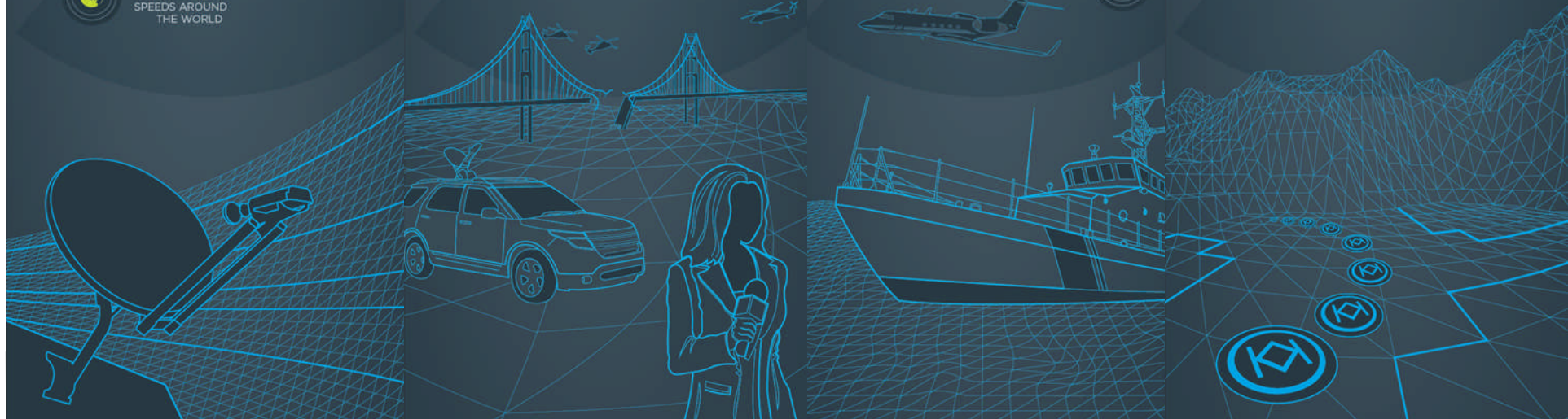


INTERNATIONAL C2SA SERVICE

SAVE MILLIONS IN DEPLOYMENT AND OPERATING COSTS



WORLDWIDE NETWORK



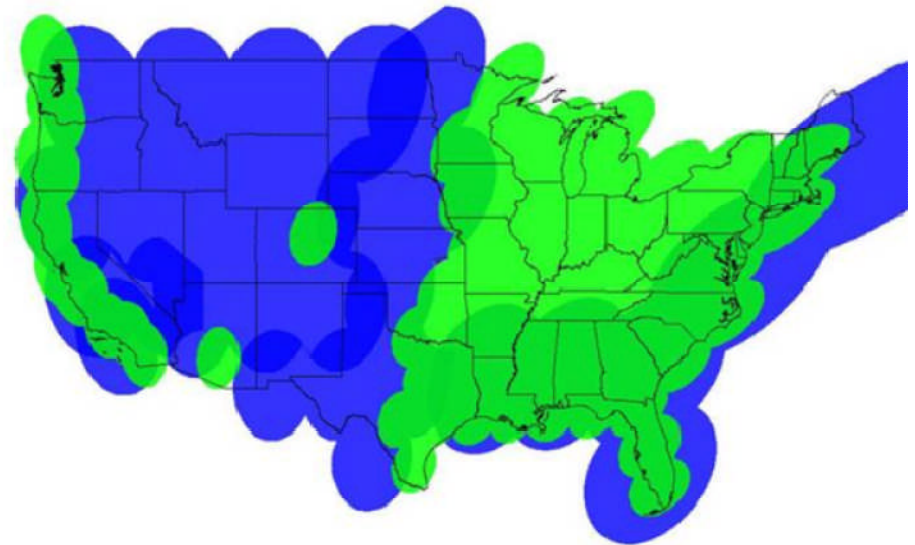
News Gathering Toolbox

Comparison...

Functionality	Ku-band Satellite	ENG Microwave	Bonded 3G/4G	ViaSat Ka-band	Microwave + Ka-band
1. Roam out of your area... seamlessly					
2. Live shots in true HD					
3. Enhanced two-way work flow					
4. Operates in all weather conditions					
5. Reduces your operating expenses					
6. Turn camera cars into live vehicles					
7. Open standard system					
8. Quality of Service... guaranteed					
9. Supports IP					
10. Don't have infrastructure control					
11. FCC spectrum availability					

ViaSat-1 Footprint

- » ViaSat-1's footprint covers 70% of the U.S. population
- » Combined with WildBlue-1 and Anik F-2, we offer full CONUS coverage plus the populated areas of Alaska & Hawaii
- » Spot beams
 - › Allow for frequency reuse
 - › More effective user bandwidth
 - › Higher EIRP and G/T
 - › Improved terminal performance
 - › Smaller antennas

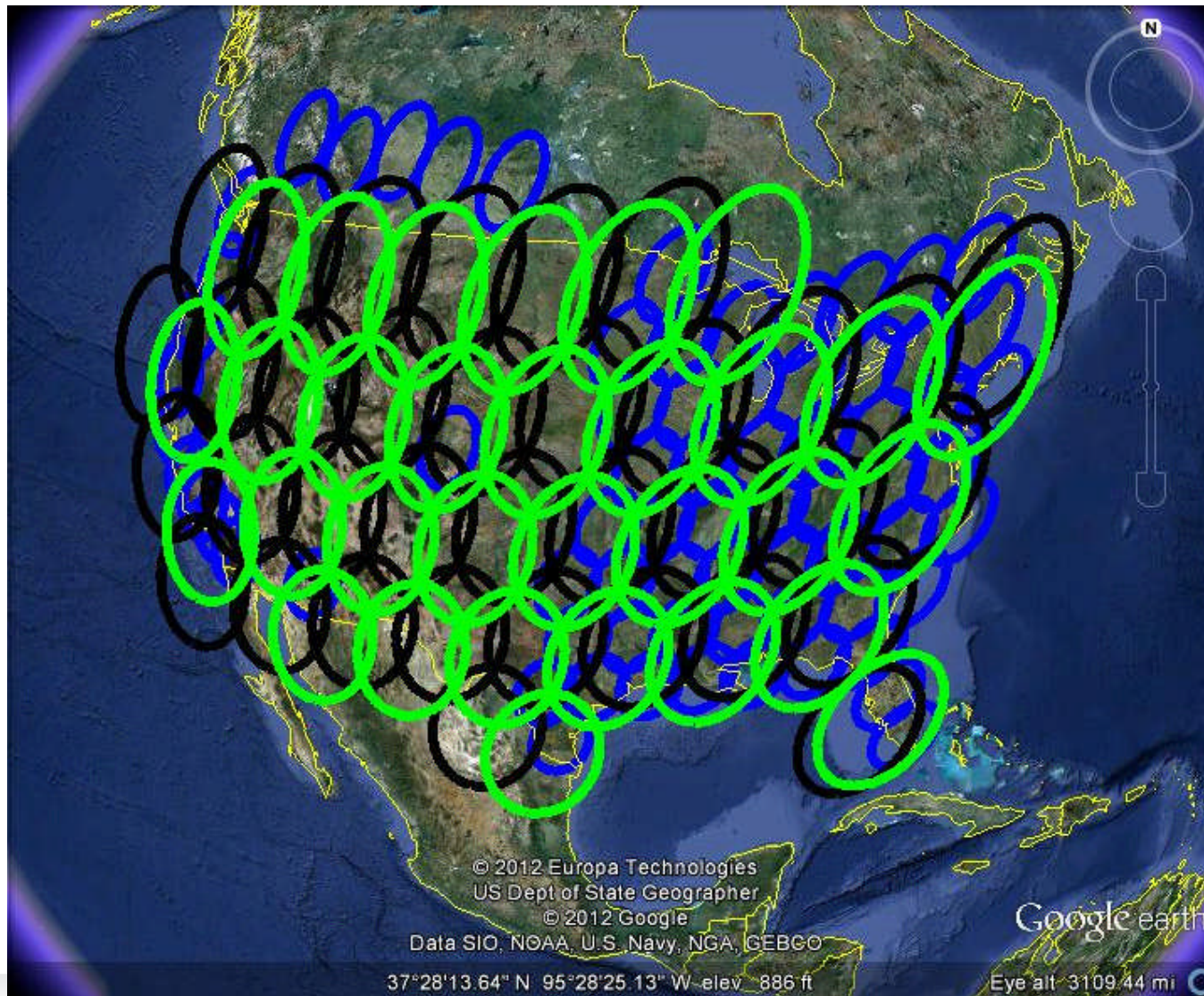


 = ViaSat-1 coverage

 = WildBlue-1 & Anik F-2 coverage

ViaSat-1, WildBlue-1, Anik-F2

(Plus Alaska and Hawaii)

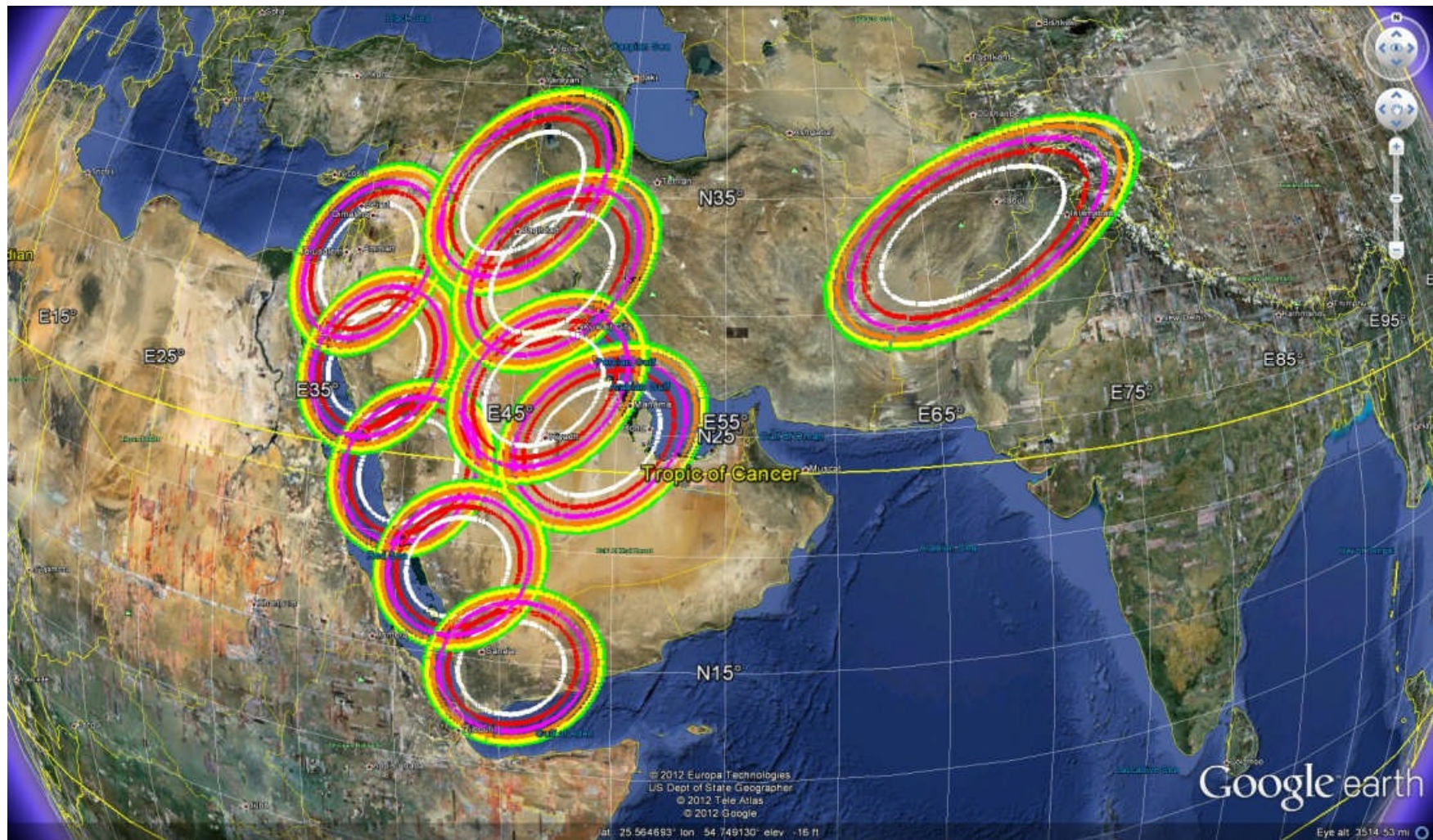


Eutelsat KASAT



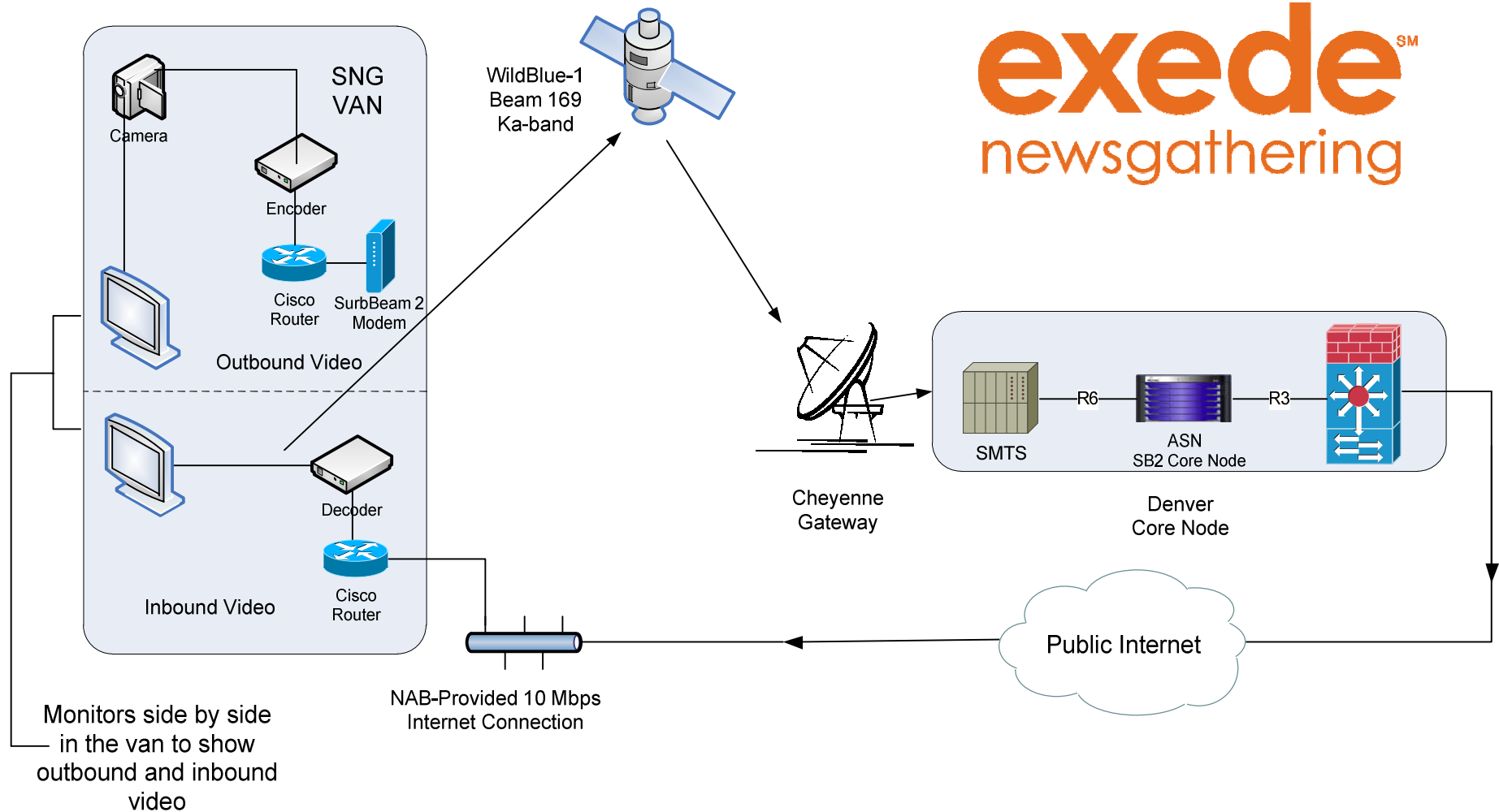
Kingdom of Saudi Arabia (KACST)

King Abdul-Aziz City for Science and Technology



SNG Signal Flow

exedeSM
newsgathering



Ground Hardware

Network Infrastructure

exedeSM
newsgathering



KA BAND GATEWAY ANTENNA

Ka-band Vehicles



- » High powered spot beams on Ka-band satellites allow for small antennas on the ground
 - › Typical sizes are 75 cm (29.5 inches) up to 1.2 m (3.9 feet)
- » Antennas can easily fit on a traditional van or on smaller vehicle used by crews
- » With a ViaSat-1 connection... the reporter and photographer on site have two-way IP connectivity just like they were sitting in the station
 - › Newsroom computer system connectivity for wire searches, script submissions and keeping track of the live shot slot in show rundowns
 - › A connection to video servers to pull content from station servers to insert into the package

Ka-band Vehicles – Auto Acquire Antenna

- » Currently using a C-COM 75cm Auto Acquire Antenna on vehicles
 - › Antenna deploys and locks onto network in about 2 minutes
 - › C-COM is based in Ottawa, Canada <http://www.c-comsat.com>
- » In discussions with AVL about utilizing their Auto Acquire antennas

SurfBeam 2 Pro Ka-75 Characteristics	
Antenna	75cm
Terminal Rx Rate	50 Mbps
Terminal Tx Rate	20 Mbps (maximum burst rate)
Size (stowed)	55"L X 36.5"W X 19"H
Mounting Plate	50"L X 18"W
Operating Temp.	-30°C to 55°C
Wind (Operational)	45 mph
Wind (Survival)	100 mph deployed / 140 mph stowed



Ka-band Pro Portable

- » Quick setup in 10-15 minutes
 - › Manual pointing assisted by audio from modem
 - › Modem provides AZ/EL coords based on GPS
- » Terminal weighs 30 lbs. (52 lbs. in case)
- » Airline checkable single case
- » Four-port router built into modem





Thank You!

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exedeSM
newsgathering

»»»» VIASAT PROPRIETARY

