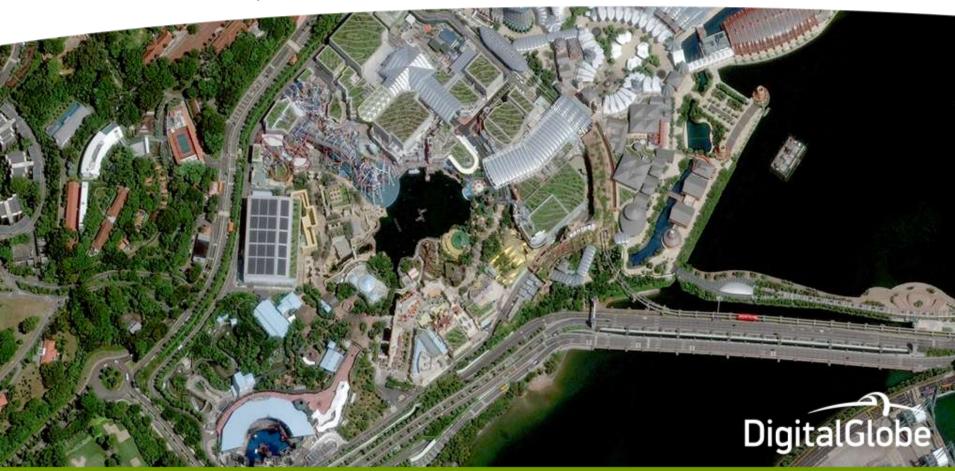
# DigitalGlobe Evolving Geospatial Technologies in New Paradigm

**Derren Yong** 

Senior Director, Asia Pacific Commercial Sales







### The market leader in remote sensing





.82 meter resolution 9 m CE90



QuickBird®

.65 meter resolution



WorldView-1®

.50 meter resolution <4 m CE90



GeoEye-1®

.46 meter resolution <3.5 m CE90



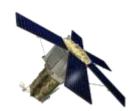
WorldView-2®

.46 meter resolution <3.5 m CE90



WorldView-3®

.30 meter resolution <3.0 m CE90



WorldView-4®

Launch scheduled: Fall 2016

#### **CURRENTLY IMAGING IN ORBIT**

#### **AVAILABLE VIA DIGITALGLOBE ARCHIVE**







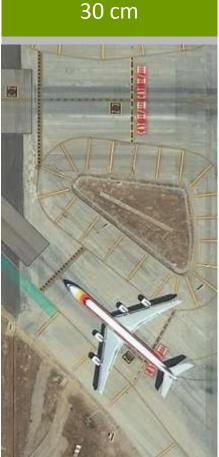


### The undisputed resolution king









DigitalGlobe is...

# An industry pioneer in technological innovation.

#### **FIRST** in the industry

First 30 cm satellite imagery



First to deliver high-resolution SWIR capabilities

First satellite with better than 5 m accuracy

#### **BEST** in the industry

Best current and historical library of Earth imagery

Best daily refresh rates

Best comprehensive Earth coverage



#### **ONLY** in the industry

Only company with sub-70cm satellite imagery

Only company with over 5 billion sq. km. of archived imagery



Only company with 4 highresolution satellites in orbit

# Leading the evolution of analytics

The Commercial Geospatial Intelligence industry has experienced four eras:

### 1st Era: Resolution

Customer needs evolve beyond aerial



DigitalGlobe drives "one meter" standard

### 2nd Era: Accuracy

Emergence of map making industry and greater accuracy drives growth



DigitalGlobe drives the 5.0 meter CE90 spec

### 3rd Era: **Speed**

Reliance on imagery at an all-time high and customer priority becomes speed and relevancy



DigitalGlobe drives on-demand standard

### 4th Era: Analytics

New valuable problemsolving uses emerging and priority becomes measuring on surface and below water



DigitalGlobe drives 8-band standard and custom analysis

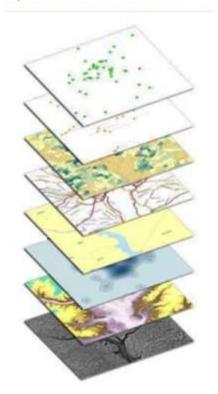


### DigitalGlobe Evolving Geospatial Technologies in New Paradigm

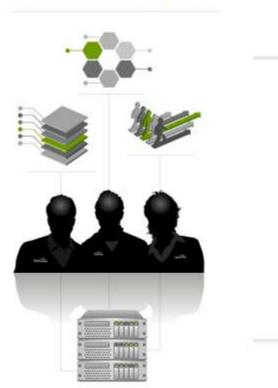


# The answers DigitalGlobe delivers are enabled by our geospatial analytics approach

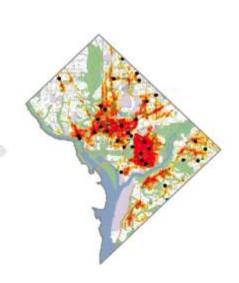
Physical geography, human geography & spatial event data



Expertise, tradecraft & tools



Geospatial insight







### **Infrastructure Development**



- Create highly accurate maps that can be created quickly to help you effectively plan for resources such as roads, bridges, tunnels, canals, dams, and buildings.
- Huangshi is growing rapidly, and it can be difficult to keep land use records accurate
  and current. Combine DigitalGlobe satellite imagery with current city land information
  to get the most up-to-date data for your city. This is perfect for better understanding
  land applications like infrastructure planning.

Changes in Huangshi Industrial Area







## Disaster Mitigation and Crisis Response ~Mitigate the impact of disasters before they happen~

- DigitalGlobe's satellite imagery and elevation technologies allow you to map evacuation routes and areas of importance as well as increase environmental awareness.
- Pre disaster imagery can be compared with post disaster imagery to get an accurate assessment of the damaged and affected areas

#### Landslide in Huangshi





#### **More Use Cases**



**Earthquake in Kathmandu, Nepal** – Emergency management and humanitarian workers used pre- and post-event images of the impacted area to aid understanding and coordination for on-the-ground missions.

**Typhoon in the Philippines** – Preparation for the event started days before Haiyan's landfall to identify the area most likely to be hit, and to anticipate the critical infrastructure most vulnerable to the storm.

**Forest Fire in Riau, Indonesia** – Before and after high resolution satellite imagery and analysis of the affected areas were made available to first responders and government agencies for the purpose of planning and maintaining situational awareness of the event.





### Kathmandu Earthquake, Nepal Case Study

5° Los Angeles, CA

-

Bo =

TONIGHT 58°



**SECTIONS** 

TRAFFIC

TH VIDEO

Los Angeles C

Orange County Inland Empire

e Veni

Ventura County

California

#### WEATHER ALERT High Surf Advisory

**NEWS** 

#### 7.5-MAGNITUDE EARTHQUAKE ROCKS NEPAL; DAMAGE REPORTED



A 7.5-magnitude earthquake struck near Kathmandu, the capital of Nepal, on Friday, April 24, 2015.

■ Share







Eriday April 24 2015

#### **NEWS**



Garland Response to Attack: 'Our Community Is Not Scared' Updated 1 min ago



Rescue helicopter interrupts Malibu beach wedding Updated 15 mins ago



Killed on Vacation: Son Detained in Stabbing Death of Parents in Virgin Islands

Updated 16 mins ago



Family of Motorist in Deadly Metro-North Crash Plans to Sue Updated 36 mins ago



Body found in North Hills apartment closet; roommate arrested Updated 42 mins ago

MORE NEWS >

#### **TOP STORIES**



South El Monte man killed by deputies after stabbing his neighbors Updated 1 hr 11 mins ago

#### RECOMMENDED



Famed Dog Dies at 20 Vetstreet



# Nepal Earthquake (25.APR.2015) – DigitalGlobe Supports Response Efforts

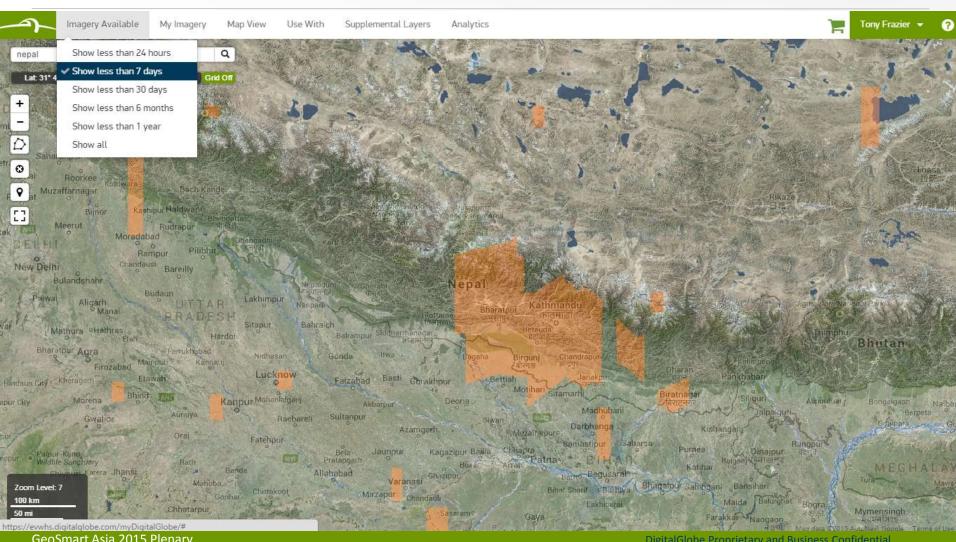
ACQUIRED: 25.OCT.2014 (WV3) ACQUIRED: 27.APR.2015 (WV3)



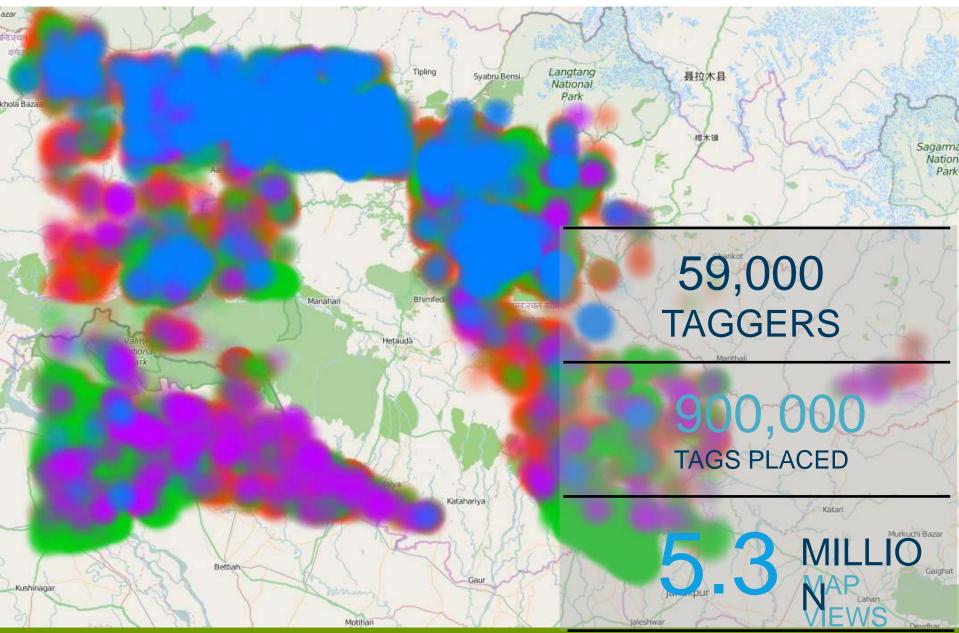


Dharahara Tower in Kathmandu, Nepal

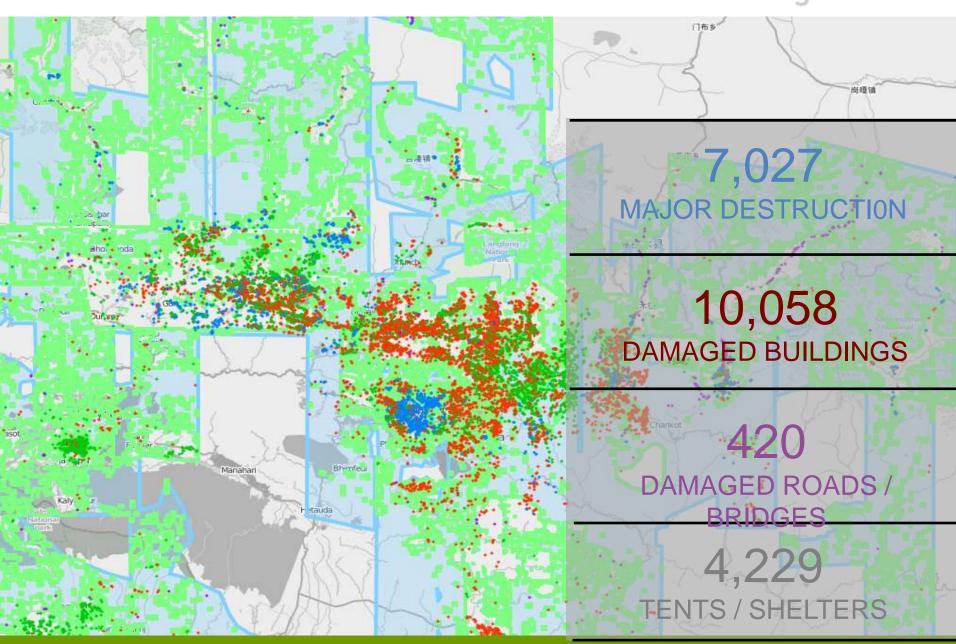
### FirstLook Service – 7 Days of Imagery Collections over Nepal

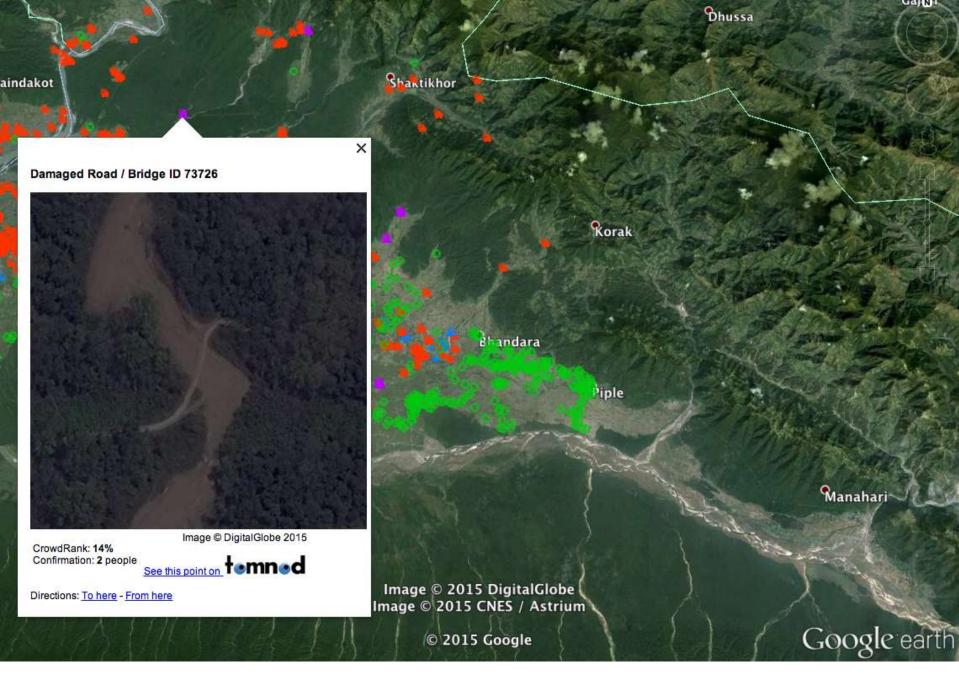












Rapid, light-weight delivery to the field

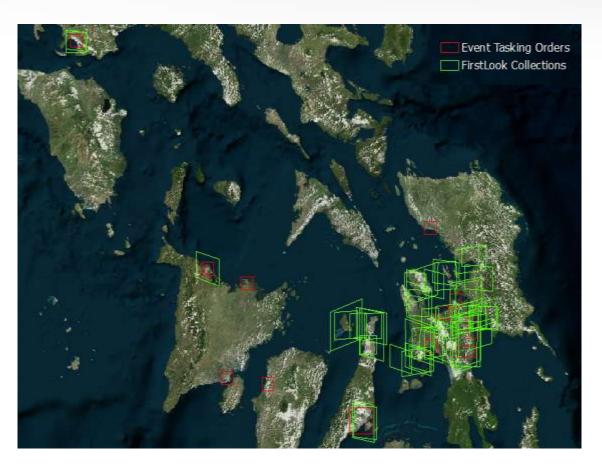


### Tyhoon Haiyan, Philippines Case Study



### Tacloban City, The Philippines: Disaster Response

DigitalGlobe's rapid and comprehensive response to the damaging Typhoon in Tacloban City, Philippines is a good case-study of how the constellation, analysis and the FirstLook program can help a variety of customers

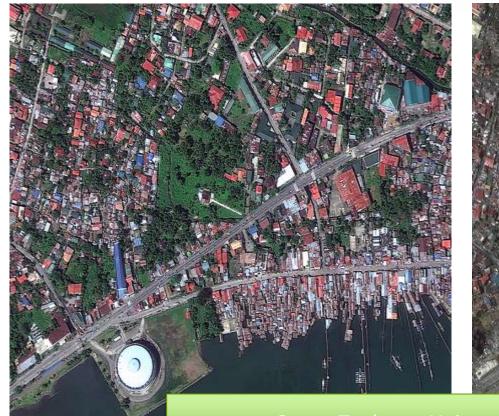


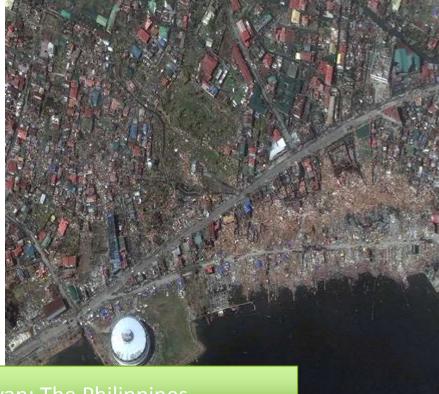
Event Date: Friday, November 8, 2013 19,000 sqkm of imagery (3 days after event)



### Pre and Post Event Imagery Available

**ACQUIRED: 1.SEP.2013 ACQUIRED: 11.NOV.2013** 





Super Typhoon Haiyan: The Philippines



### FirstLook Report





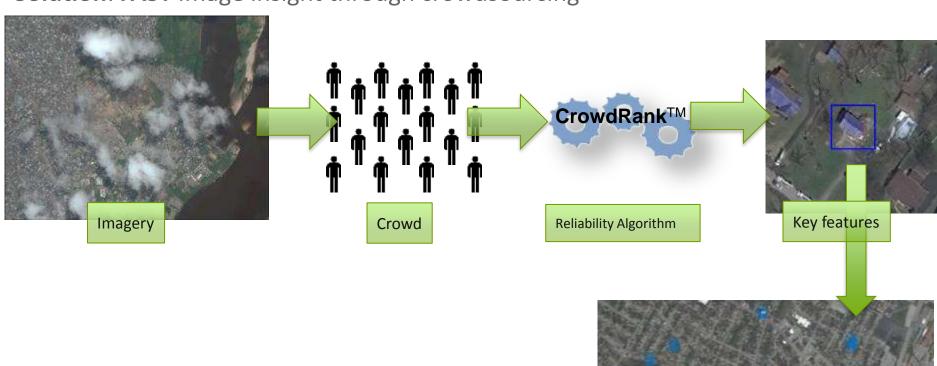




### DigitalGlobe Crowdsourcing

**Problem**: Exploiting mountains of imagery (DG collects 2,500,000 km<sup>2</sup> every day!)

Solution: FAST Image insight through crowdsourcing



http://www.tomnod.com



### Crowdsourcing: Tacloban City, The Philippines





### CrowdSourcing – Support Statistics for Haiyan



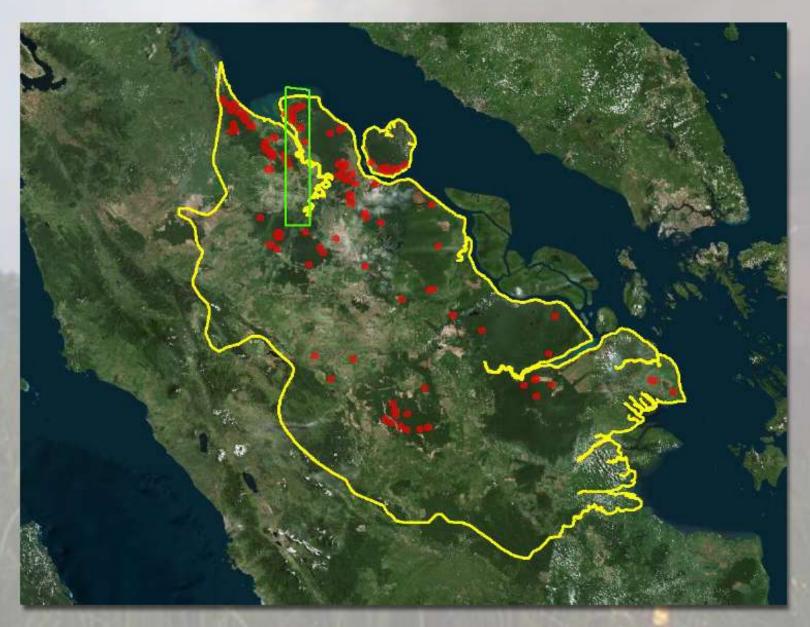


### Forest Fire, Riau, Indonesia Case Study

### Hotspot Cues From Global Active Fire Data



### Imagery Collected Over Potential Fires



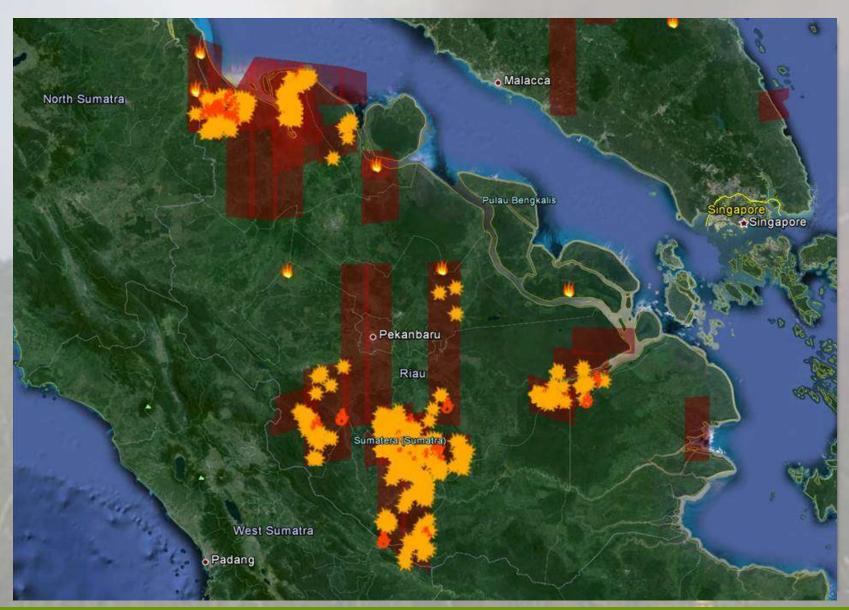
### Imagery is Served to the Crowd



### Active Fires or Burn Scars Identified



### Active Fires or Burn Scars Identified



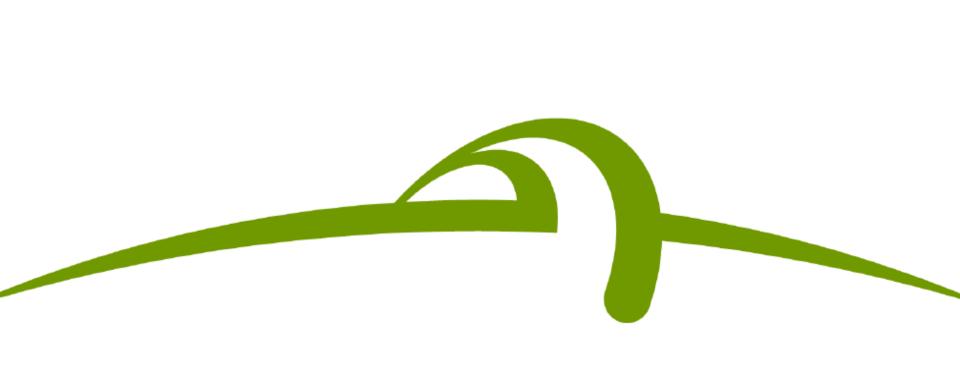


### We deliver new generation solutions

Accelerating delivery of relevant, timely imagery so customers can manage projects anywhere, anytime. Launching new solutions so customers can solve large-scale challenges more quickly.

Pioneering faster, highvalue analytics to expand the industry and drive new growth.





www.digitalglobe.com