



# INTEGRATED INFORMATION SYSTEMS

## A NATIONAL PRIORITY FOR IMPLEMENTING THE SDGS

ANDY WILD

Mailiao Refinery, Taiwan — May 31, 2016



## Mission 1

To image the whole world every day, **making change visible, accessible and actionable.**



# DOVE SATELLITE

3U CUBESAT

DIMENSIONS: 10 x 10 x 30 cm

WEIGHT: 4-5 kg

CAMERA CAPTURES

RED-GREEN-BLUE (RGB) AND

NEAR-INFRARED (NIR) IMAGERY

SPECTRAL BANDS:

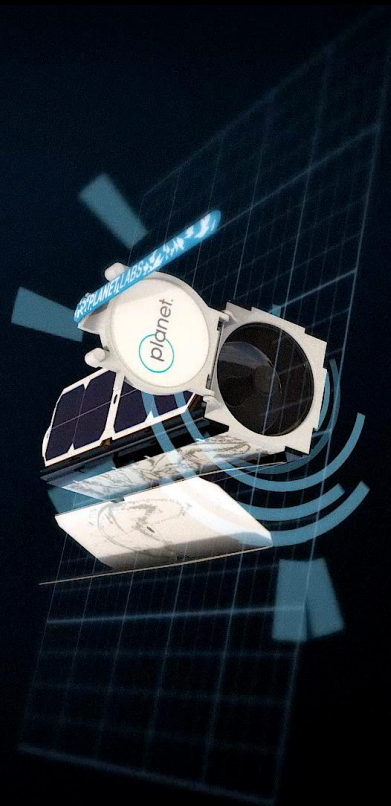
BLUE 455 – 515\*

GREEN 500 – 590\*

RED 590 – 670\*

NIR (NEAR INFRARED) 780 – 860

\* $\lambda_{fwhm}$

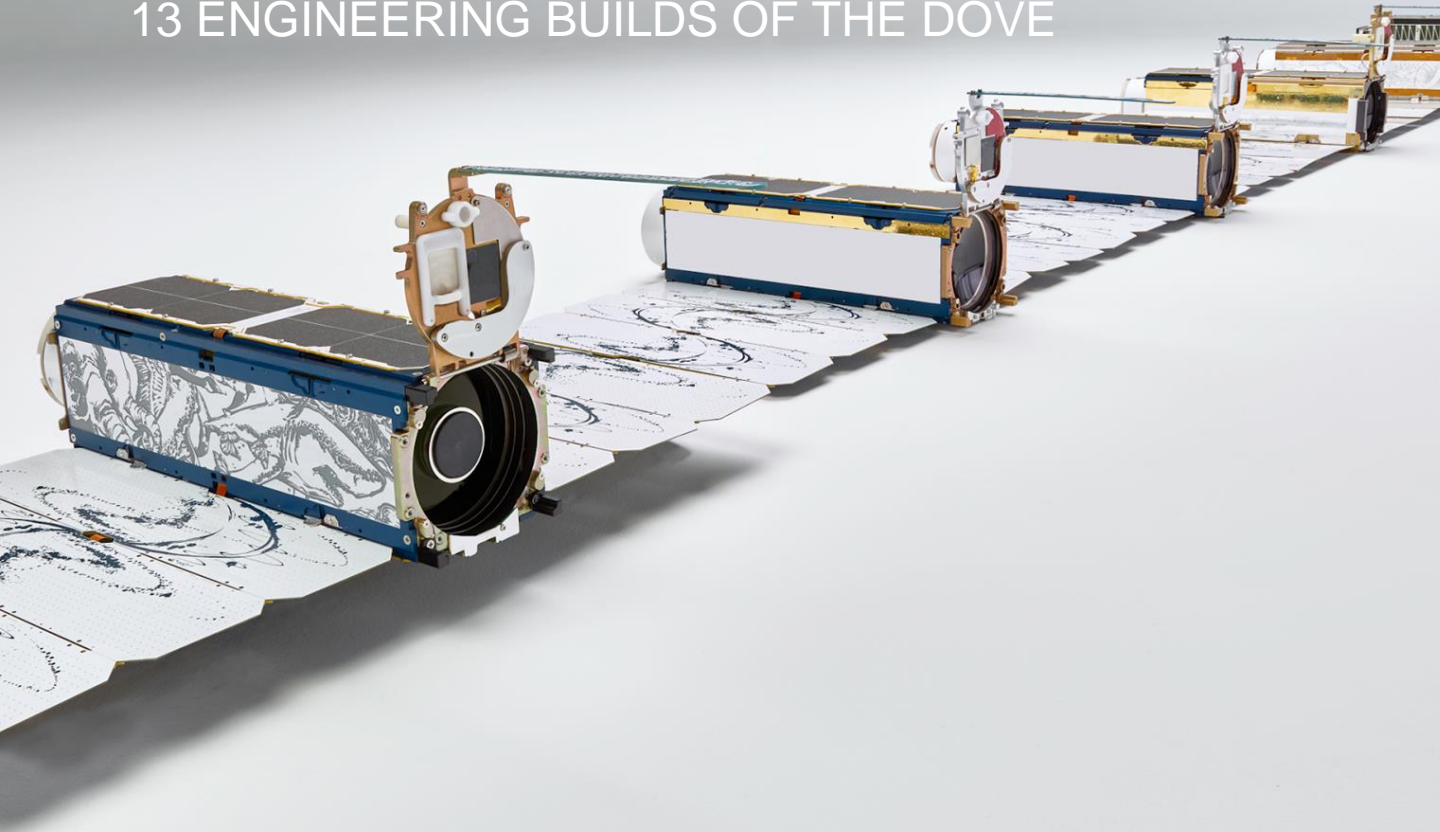






# AGILE AEROSPACE

## 13 ENGINEERING BUILDS OF THE DOVE





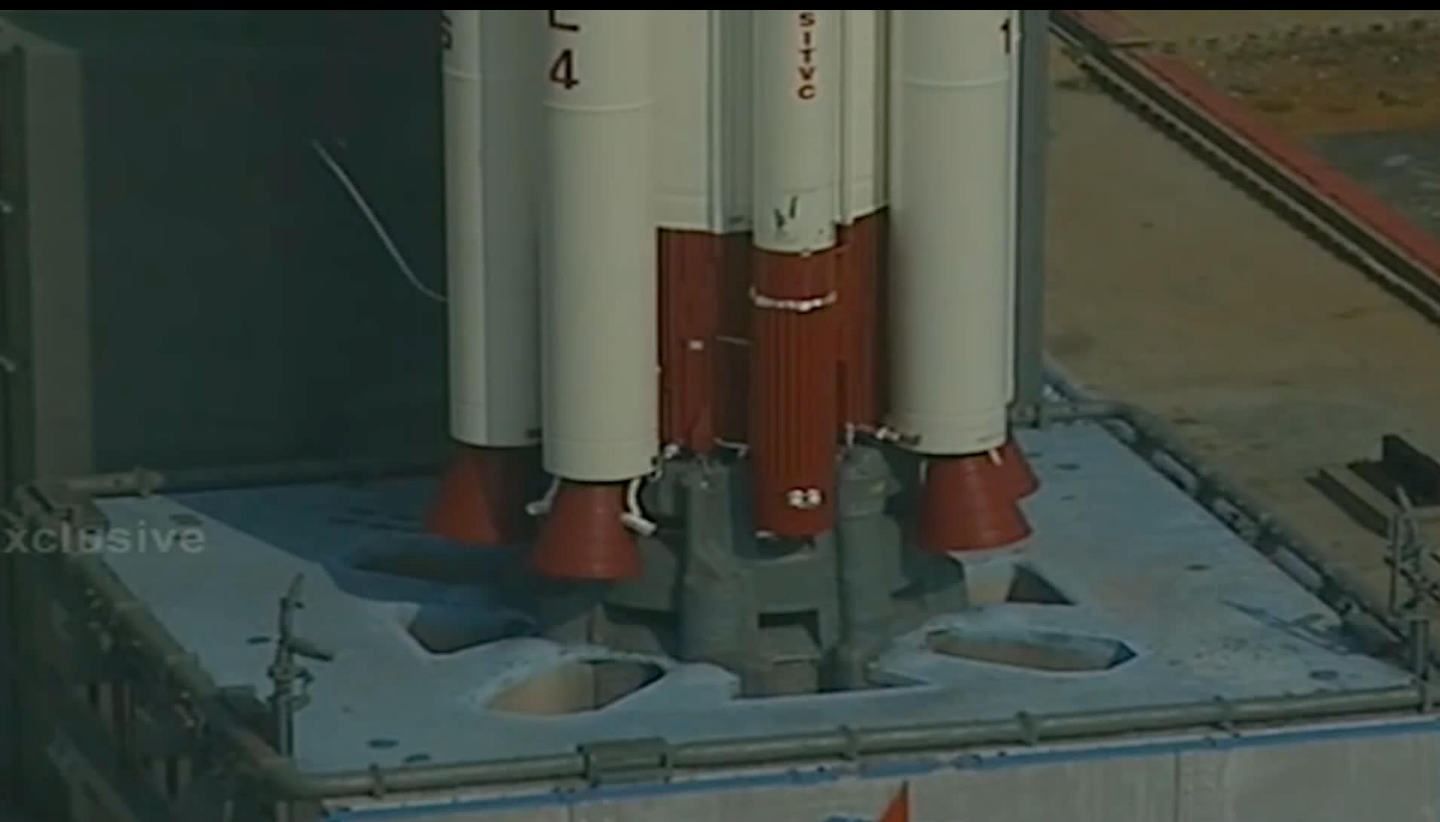
# MANUFACTURING FACILITY

20 DOVES PER WEEK







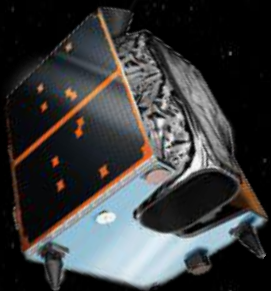


exclusive

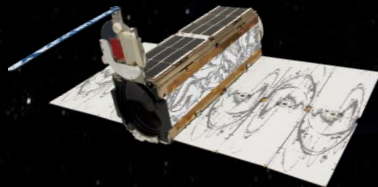


# PLANET'S CONSTELLATION

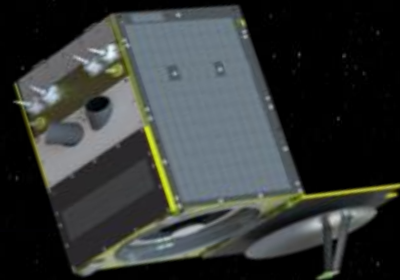
190+ SATELLITE FLEET



**5** RapidEye  
Satellites



**175+**  
Dove Satellites  
PlanetScope



**13**  
SkySat  
Satellites





**MISSION  
ACCOMPLISHED**

Mission 1

To image the whole world every  
day, **making change visible,  
accessible and actionable.**

## Planet By the Numbers

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Total images per day:	1.4 million 29MP images
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Area covered:	300 million km <sup>2</sup> per day
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Data:	6+ terabytes per day downlinked
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Burning through the clouds:	95% cloud free imagery of Earth's landmass each week
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Image stack:	On average over 440 images per location on Earth
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# TURN PIXELS INTO INSIGHTS



## MONITOR DAILY

**Access 1.5 million  
images delivered  
online daily**



## DISCOVER TRENDS

**Analyze Earth's activity  
for meaningful patterns**



## DELIVER INSIGHTS

**Build better models  
and make informed  
decisions**





**AGRICULTURE**



**MAPS &  
IMAGERY**



**GOVERNMENT**



**FINANCE  
& INSURANCE**



**ENERGY**



**SOCIAL  
IMPACT**



**FORESTRY**



**PLUS MANY  
MORE....**

# MEETING THE SUSTAINABLE DEVELOPMENT GOALS



## Astonishing time-lapse satellite imagery shows rapid growth of refugee camps

By Max Bearak September 19



Planet partnered with Amnesty International to raise awareness around new and rapidly growing refugee camps





# NDVI DETECTION



Shell  
Ag NDVI

Overview

Create  
Log Out

Iowa Field 2

Last updated 05/31/2017

Positive

Iowa Field 9

Last updated 06/04/2017

Positive

Iowa Field 8

Last updated 06/04/2017

Positive

Iowa Field 7

Last updated 06/04/2017

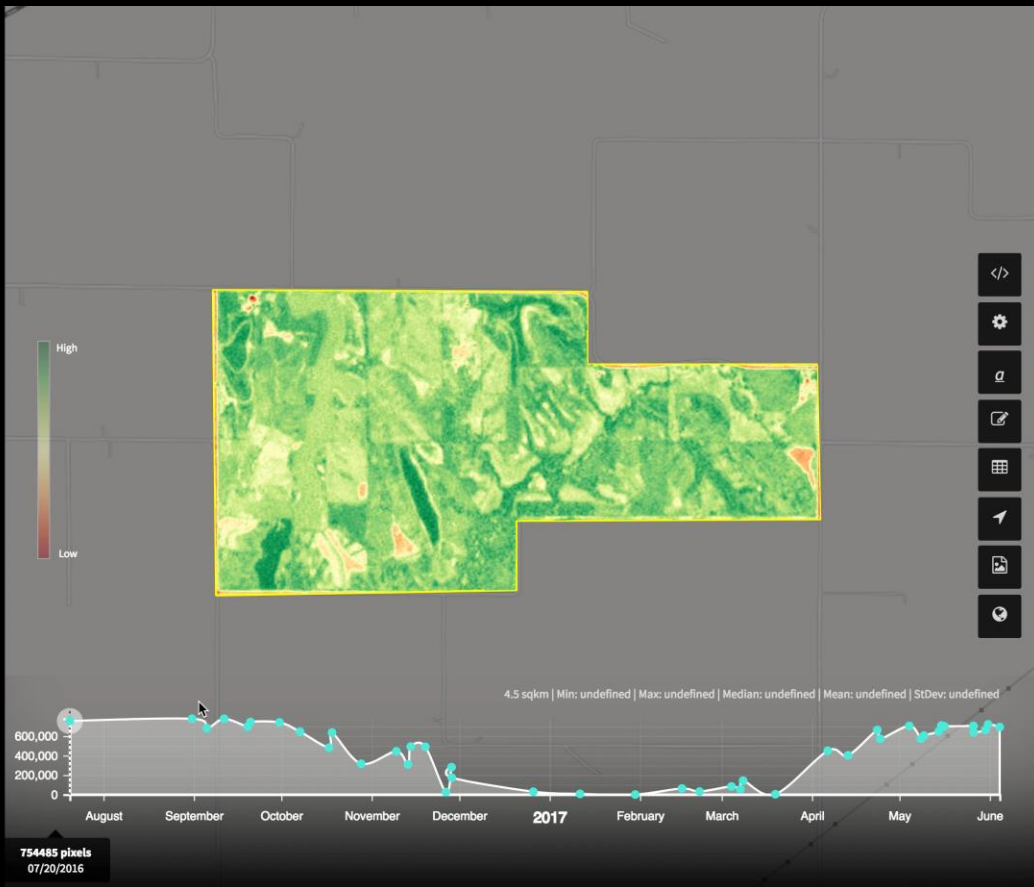
Positive

Iowa Field 6

Last updated 05/31/2017

Positive

2 ZERO  
HUNGER





# BHAMA ASAKHED DAM, INDIA

6 CLEAN WATER  
AND SANITATION



2016  
February



18

2016  
March



15







# BHAMA ASAKHED DAM, INDIA

6 CLEAN WATER  
AND SANITATION



2016  
February



18

2016  
March



15







# KANGERLUSSUAQ GLACIER

13 CLIMATE ACTION



2017  
April



15

2017  
June



05







# KANGERLUSSUAQ GLACIER

13 CLIMATE ACTION



2017  
April



15

2017  
June



05







# CARBON LOSS ESTIMATION

◀ 2016 ▶

CARBON LOSS

■ CARBON IN 1,000 METRIC TONS

13 CLIMATE  
ACTION







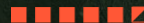
# CARBON LOSS ESTIMATION

◀ 2016 ▶

## CARBON LOSS

■ CARBON IN 1,000 METRIC TONS

JUN. 15—AUG. 13



5,856

13 CLIMATE ACTION







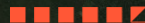
# CARBON LOSS ESTIMATION

2016

## CARBON LOSS

CARBON IN 1,000 METRIC TONS

JUN. 15—AUG. 13



5,856

AUG. 13—25



18,276

13 CLIMATE ACTION







# CARBON LOSS ESTIMATION

2016

## CARBON LOSS

CARBON IN 1,000 METRIC TONS

JUN. 15—AUG. 13



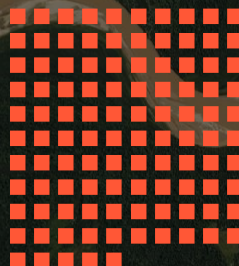
5,856

AUG. 13—25



18,276

AUG. 25—NOV. 11



105,168

13 CLIMATE ACTION



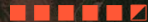


◀ 2016 ▶

# CARBON LOSS

■ CARBON IN 1,000 METRIC TONS

JUN. 15—AUG. 13



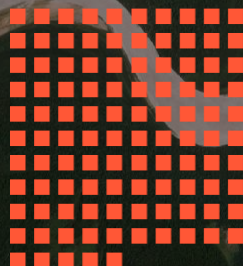
5,856

AUG. 13—25



18,276

AUG. 25—NOV. 11



105,168

NOV. 11—DEC. 22



36,144



Sensors will help us  
monitor and track this  
change as it  
happens, like never  
before



# TURN PIXELS INTO OUTCOMES



## MONITOR DAILY

Daily global  
imagery enables us  
to act now



## DISCOVER TRENDS

Analyze Earth's  
activity for meaningful  
patterns



## DELIVER INSIGHTS

Build better  
models and make  
informed  
decisions





Search for a location

Log in

**COME EXPLORE @ PLANET.COM**

Thank you!  
Andy Wild | [andy@planet.com](mailto:andy@planet.com)



Labels



2000 km



Jan - Mar

Apr - Jun

Jul - Sep

Oct - Dec

2014

Jan - Mar

Apr - Jun

Jul - Sep

Oct - Dec

2015

Jan - Mar

Apr - Jun

Jul - Sep

Oct - Dec

2016

Jan - Mar

Apr - Jun

Jul - Sep

Oct - Dec

2017

3 Month - Mosaics

Month - Mosaics

