Harnessing Remote Sensing at Global Scale

See a better world.™
Origins & Evolution of the Remote Sensing Industry
It began with global transparency ... for a few
SPOT brought transparency to a broader audience

Chernobyl
May 1986
SPOT-1
10m/20m GSD
The modern industry was born in 1992

Satellite Technology

Moore’s Law

Idle Hands

End of the Cold War

1992 Land Remote Sensing Policy Act
Today, remote sensing is becoming ubiquitous
Enabling Analytics at Global Scale
The data management challenge
The data management challenge

DigitalGlobe Image Library
1999-2016
100 PB

x 200,000

40x world fleet
We captured these data boulders ...

But they were stuck “in jail”
Three trends have enabled large scale analytics

Elastic cloud computing
Three trends have enabled large scale analytics

Deep Learning

hidden layer 1

hidden layer 2

hidden layer 3
Three trends have enabled large scale analytics

Crowdsourcing
Harnessing Remote Sensing at Global Scale
Building country-scale geo databases

~13,000,000 structures
... including roof types (from SWIR)
Finding where people live ... to connect them

Naivasha, Kenya population density
IUU Fishing is a complex, global issue

- Caused by too many fishers chasing too few fish
- Worsened by economic insecurity
- Results in destruction of habitat and decreased stocks
- Caused by too many fishers chasing too few fish

Unregulated fishing may also occur on the high seas, outside of any Exclusive Economic Zone (EEZ) or Regional Fishing Management Organization (RFMO) area.
Seeing A Better World
HONORIS

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