



transforming the way the world works



Photogrammetric Week 2013

Connecting the Dots and Points in the Geospatial World

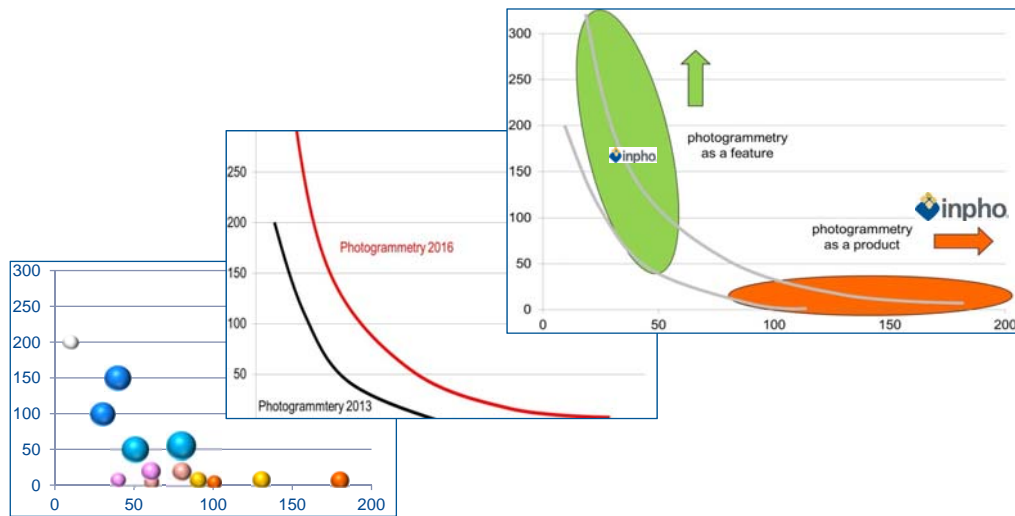


“Sooner or later every product becomes a feature”

Smartphones

- Navigation
- GNSS
- CRM
- Telephony
- Payment function
-
- Image analysis
- **Photogrammetry**

Connecting the dots and points



- **Photogrammetry in general has already developed into a core feature employed by smart phones, total stations, UAVs, mobile mapping systems and many other devices and platforms equipped with cameras**
- **In aerial photogrammetry we continue to see this technology evolve based on own product platforms**

Aerial photogrammetry employed by Unmanned Aerial Systems (UAV/UAS)



Trimble UX5 Aerial Imaging Rover



Trimble Business Center

Imagery to Information

Harrier / TAC / UX5
other platforms



data capture

open market standards



photogrammetry

feature extraction

open market standards + fast loops

open market standards

GIS / CAD / BIM / UIM
Survey / Online



delivery

- End-to-end integration is important, but in some areas more productive than in others
- Point clouds play a central role in the whole image processing world, especially in aerial photogrammetry
- We can expect the biggest step forward coming from fast loops between photogrammetry and automated feature extraction



transforming the way the world works



Thank you!

Ralph D. Humberg
Director, Innovation – Geospatial
ralph_humberg@trimble.com