

# Intergraph's PhoWo Message

Dr. Hartmut Rosengarten  
*Program Manager EMEA – Earth Imaging Solution Center*



Images Courtesy of Stereocarto, Spain; PhotoScience, USA; AAM Hatch PTY Ltd., Australia



## Agenda

---



## Key Success Factors

# Intergraph's Key Success Factors

- Be Innovative
- Reduce Costs of Ownership
- Protect investments
- Offer Solutions

# Market Place for Imagery / geo data



Thanks to Google Earth



Thanks to Tele Atlas



Thanks to USDA (or JRC-MARS)



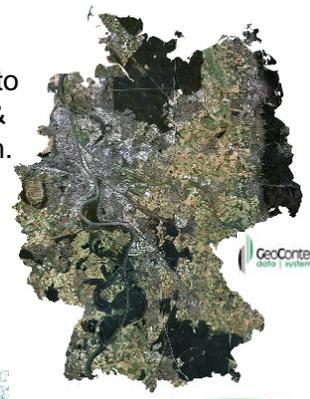
Thanks to Microsoft Virtual Earth



Thanks to Pictometry



Thanks to private & governm. imagery projects



GeoContent Solutions

TerraMapServer

## Innovation

### Innovation: Solid State Disk (SSD)



- Leading edge storage technology
- Small System Footprint
- Drastically Reduces Weight
- No Power Modifications
- For Small, Single Engine Aircraft
- Intergraph to be #1 in offering SSD

# Innovation: Data Readout Station

- For all DMC storage media (SSD, FDS)
- 1 hour per 1000 images
- Output on LTO Tapes or removable disk drives
- USB interface for exchange of any additional project data (e.g. GPS / INS)
- Optional onsite post processing via VPN connected PC/Laptop

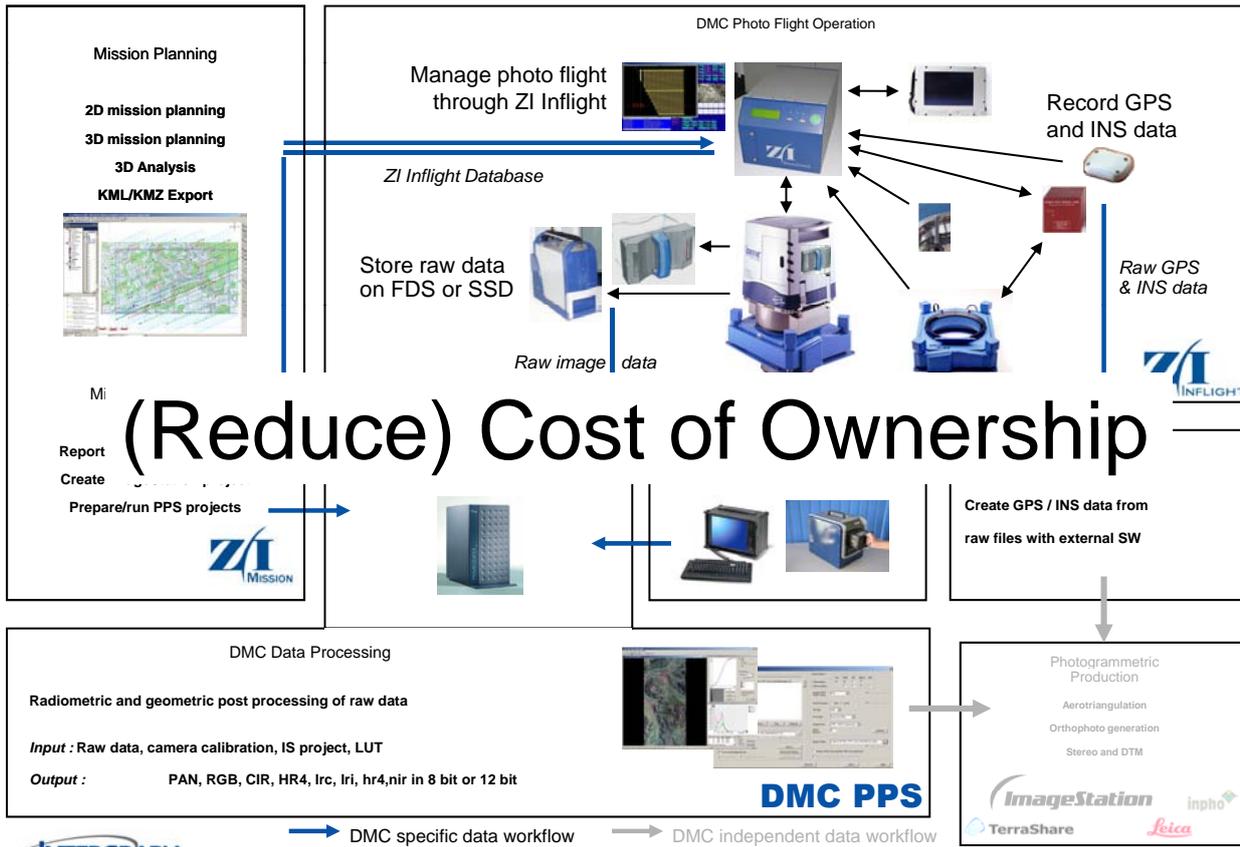


# Innovation: Z/I InFlight



- Only system with integrated video camera support
- Only FMS system with integrated image quality control
- Independent display for pilot and camera operator (user selectable)
- In-flight project overview (Onboard Project Viewer AOPV)
- In-flight data Quality Control (Z/I ImageView)

# Key Success Factors



# Costs of Ownership: Reliability





**Optics from Zeiss**

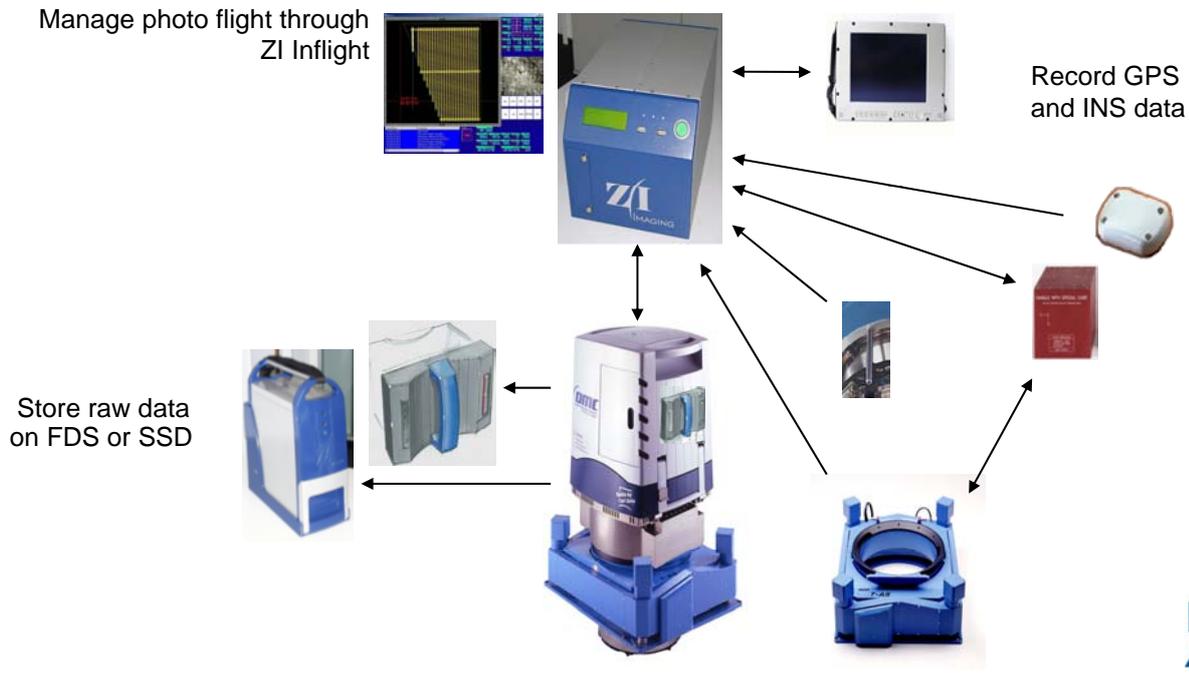


**CCD's from Dalsa**

# Costs of Ownership: Airborne Operation



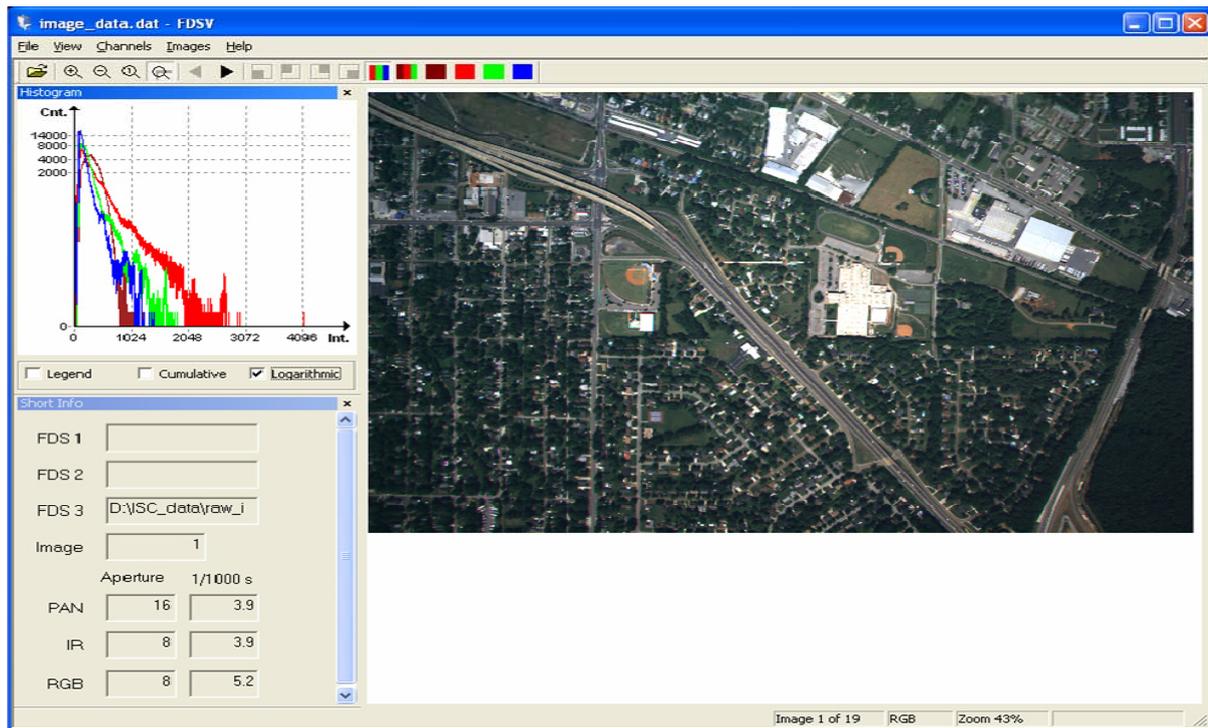
## DMC Photo Flight Operation



# Costs of Ownership: Field-servicability



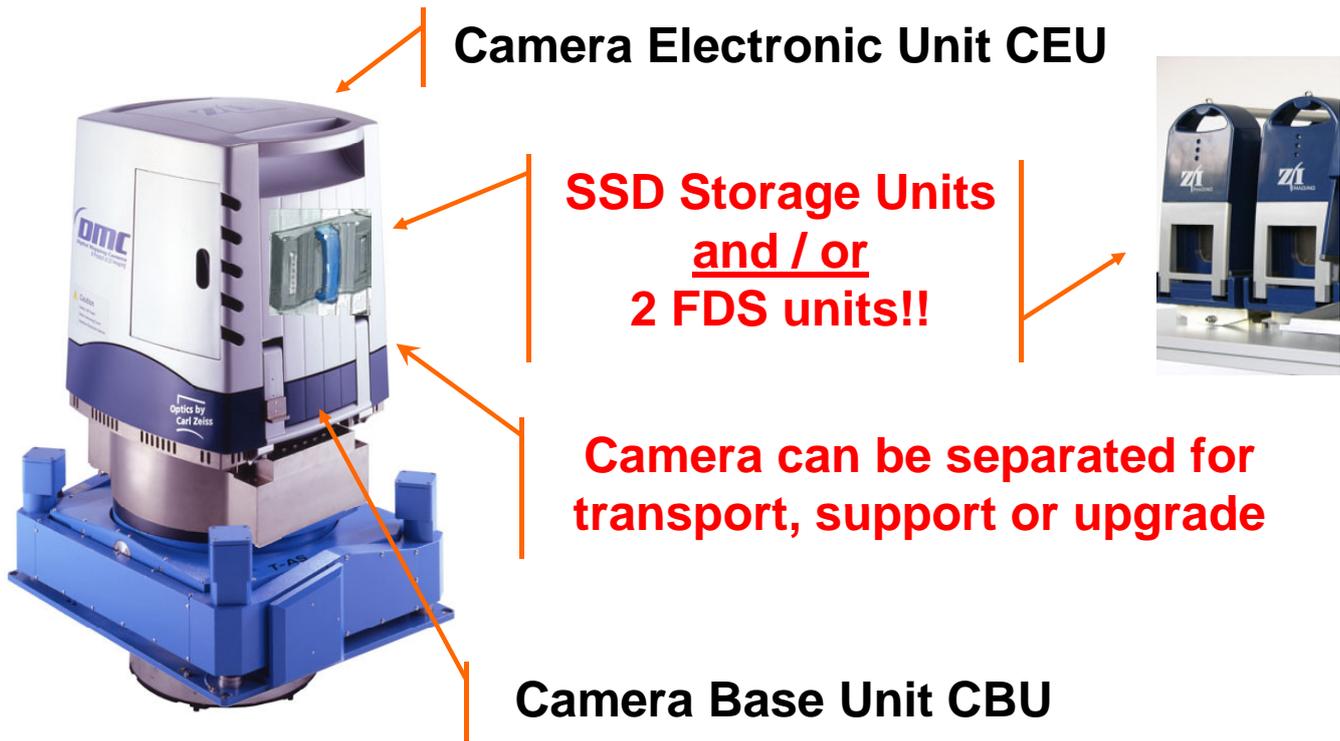
# Costs of Ownership: InFlight QA/QC



## Key Success Factors

# Protection of Investment

# Committed to Protect your Investment



# Committed to Protect your Investment



- Compatibility – Examples:
  - 2 FDS SSD-ready makes use of FDS and SSD
  - Z/I InFlight for DMC and RMK TOP
  - Latest PPS works even with former raw data
- Upgradability – Examples:
  - ISMP to Z/I Mission
  - ASMS to Z/I InFlight – software is compatible
  - Upgrade from DMC with 3 FDS to SSD
  - Specials for customer under maintenance

# Customers Response to Commitment

1st S

AERO

PHOTO  
Geospatial Solutions

North Dakota  
Department of Transportation

SANBORN

300  
the spatial data center



OGYO CO., LTD.

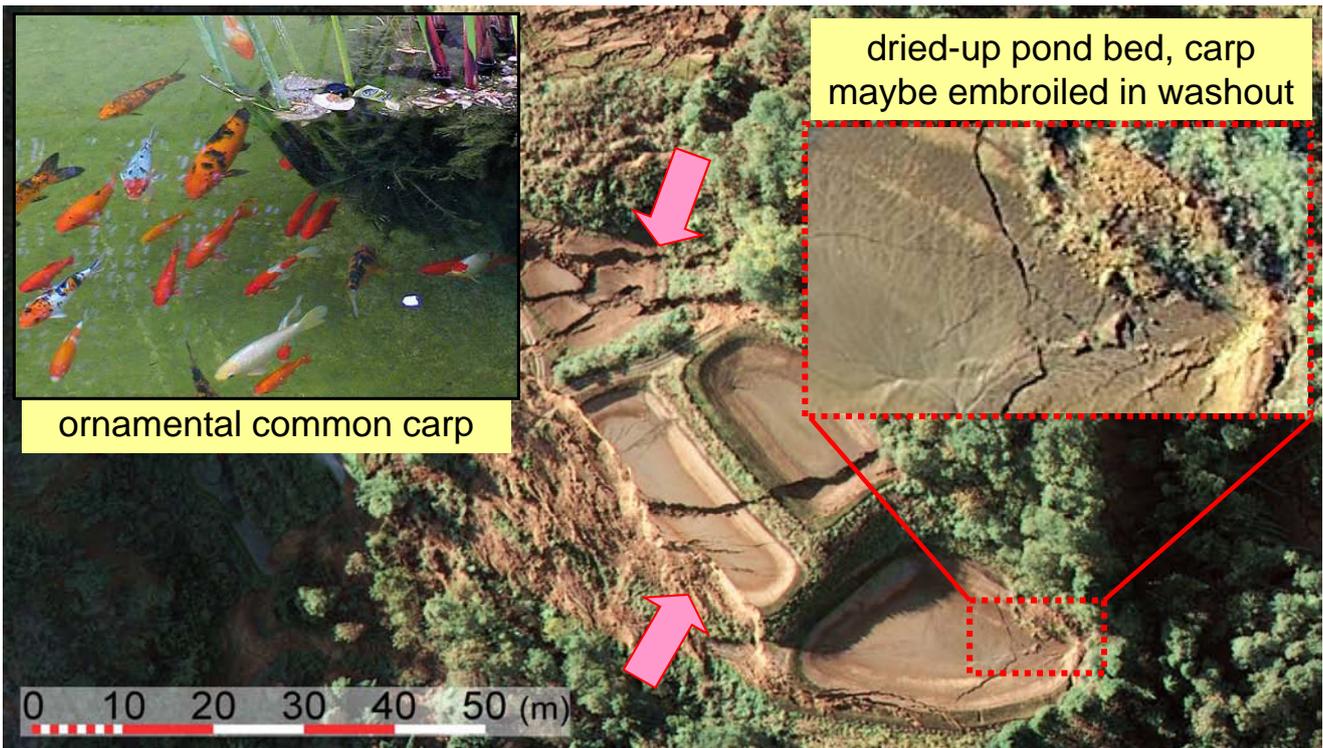
Aero Asahi Corporation



China

erse (China)

## Ruins of breeding pond



ornamental common carp

dried-up pond bed, carp  
maybe embroiled in washout

**GSD=12.0cm:** Yamakoshi village (now part of Nagaoka city), at Oct. 24



Flooded & Destroyed Homes

# Estadio Bernabeu



Z/I Imaging Quick View - 3422257.tif

File View Window Adjust Display Help

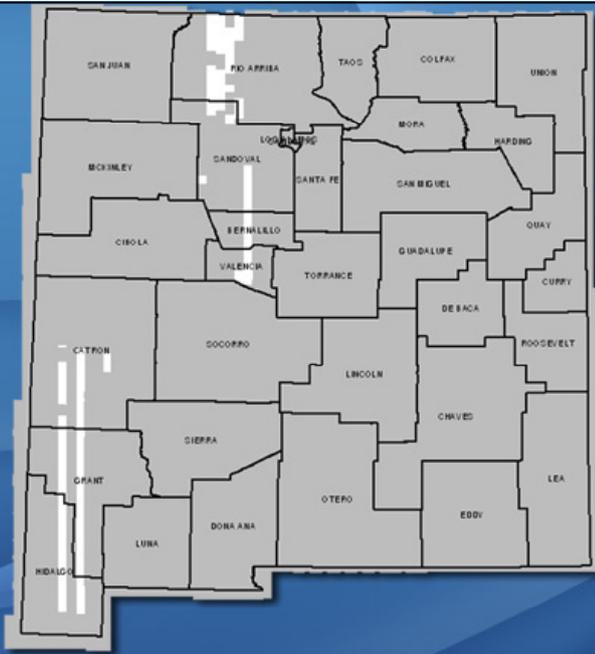


3422257.tif



Row,Col: 4643.64, 4763.98





- Largest Area DMC Project in North America
- Collection by Jet Aircraft
- 1.0 meter pixel, 17,100 frames
- 121,360 square miles in NM
- Additional 26,000 square miles in AZ & UT

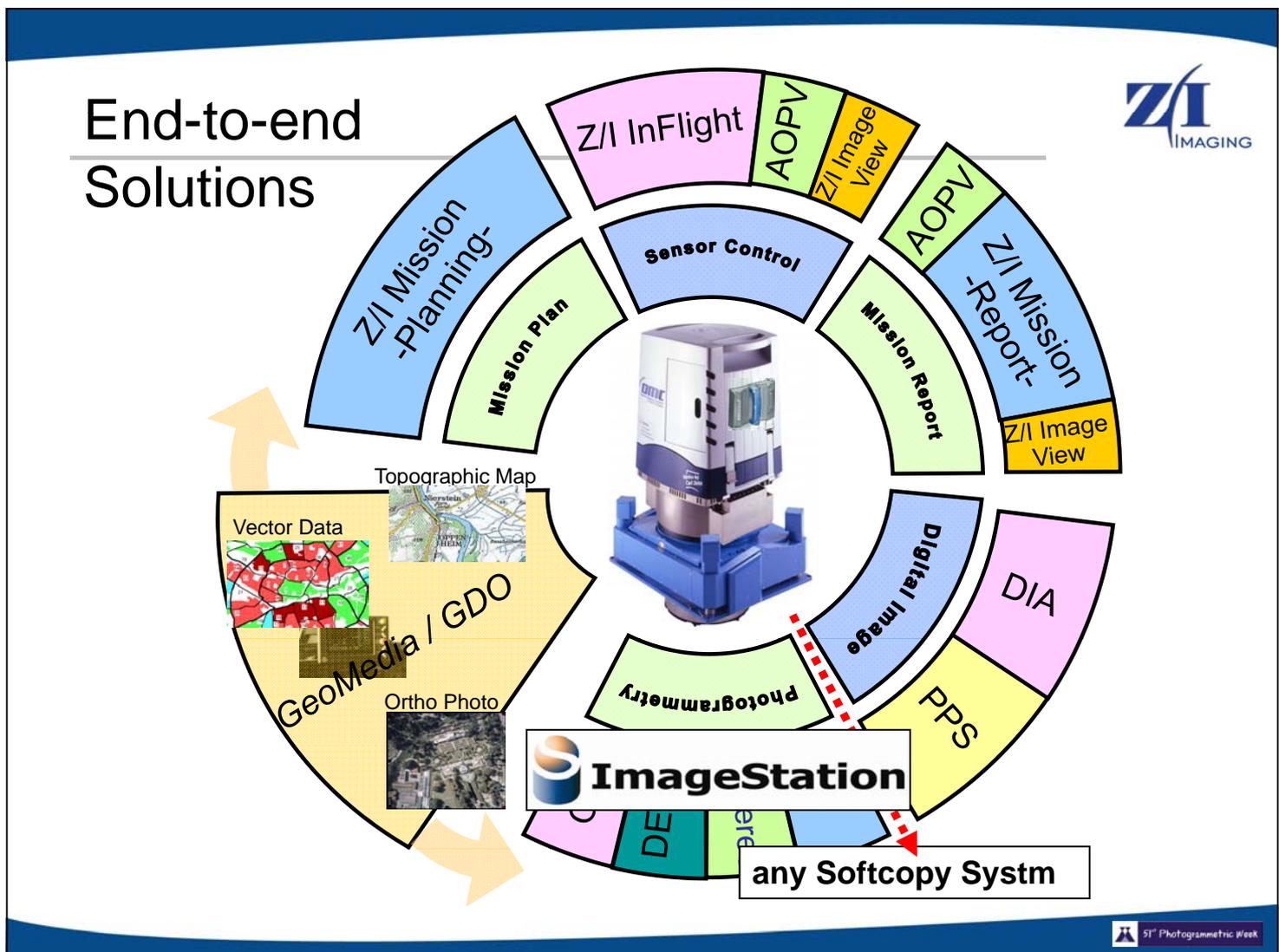
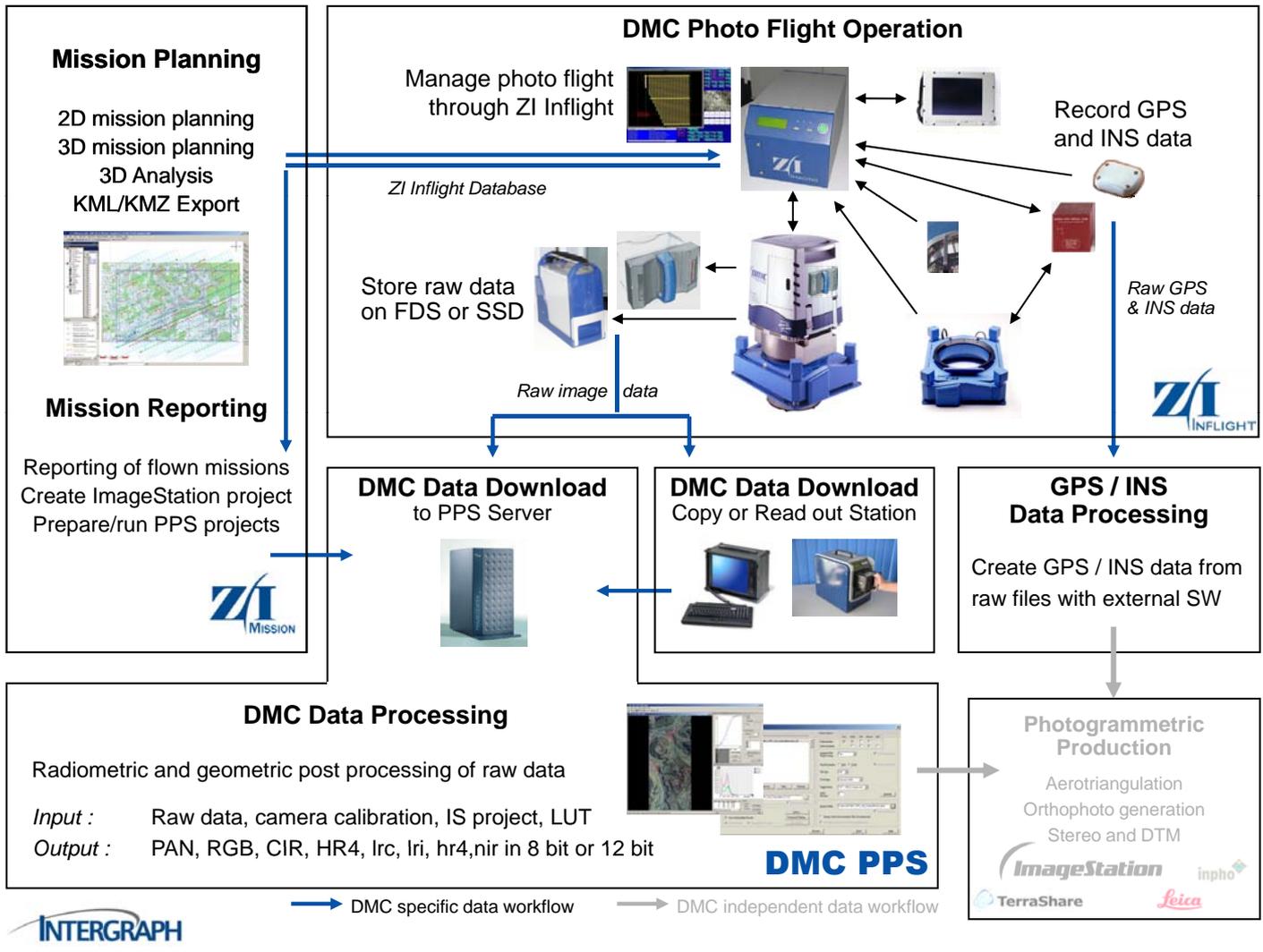
Bohannon ▲ Huston  
INC.

## Key Success Factors

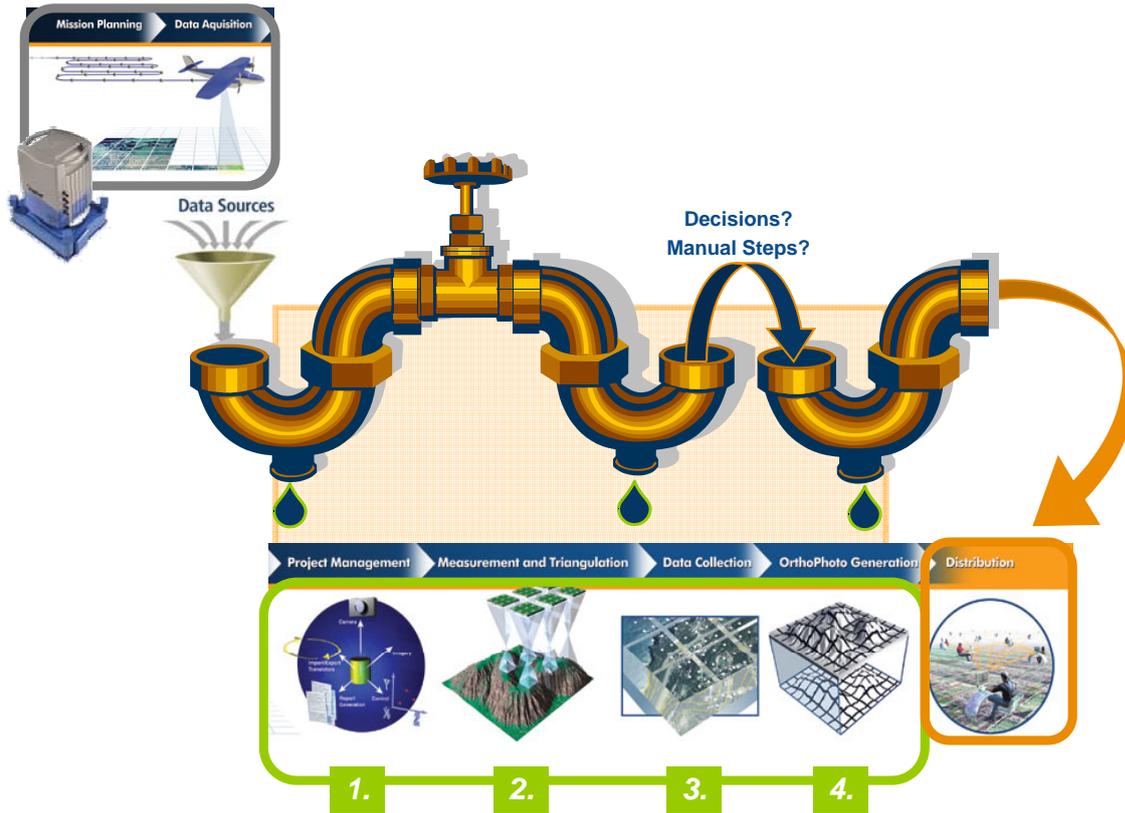
---



# End-to-end Solutions

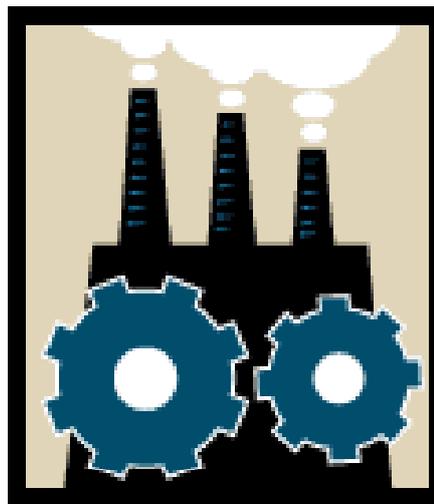


# End-to-end Solutions: Project PixelPipe



## Intergraph's PhoWo Message

Visit the Demo's!  
Enjoy PhoWo!



***“To support a highly automated innovative data production process reducing costs and protecting customers investments”***



INTERGRAPH

Our customers make us the world's leader.



ZI  
IMAGING

*Creating the Future of Earth Imaging*