

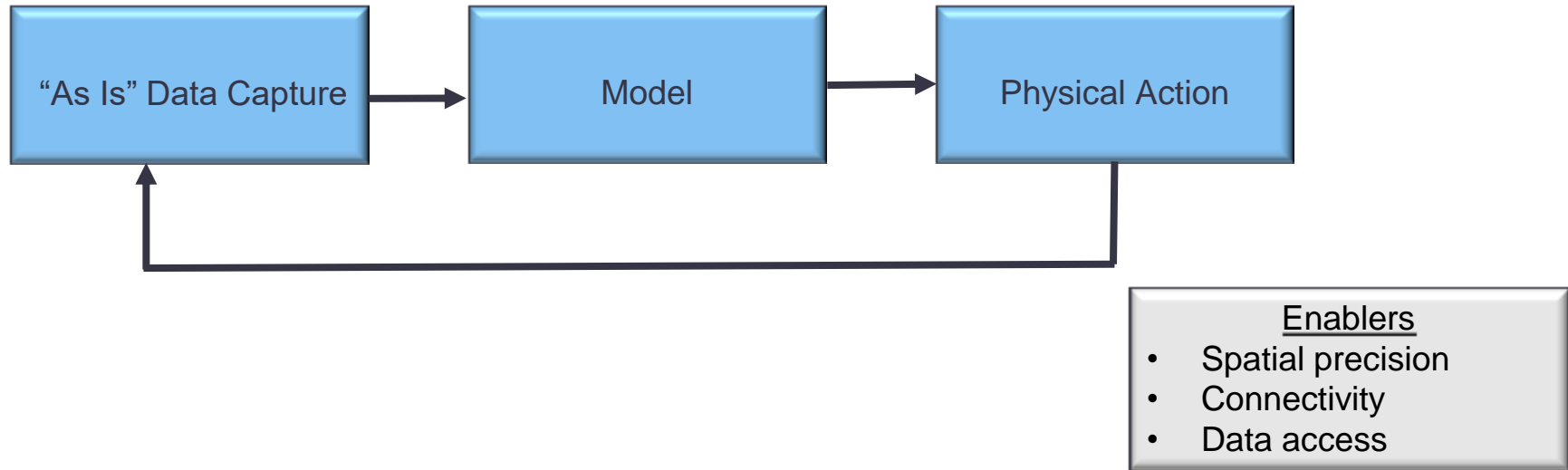


# Geospatial and the convergence of the physical and digital worlds



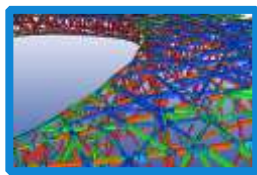
Steve Berglund, CEO

# Spatial data is being deeply integrated into real time model-centric solutions



# Spatial data is a vital element in work flow transformation

## Construction

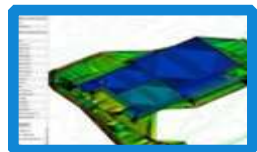


3D model at anchor bolt level detail drives pinpoint construction accuracy during fabrication and construction

Construction verification against the model



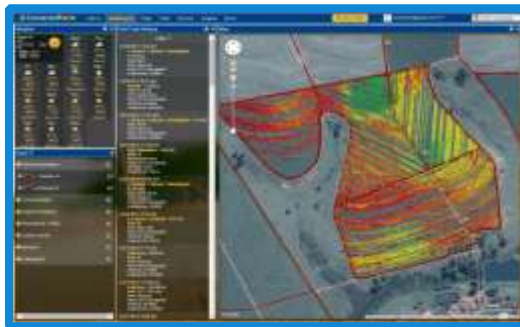
3D design model imported to the machine control and guidance equipment in the field



Progress monitoring enables schedule optimization



## Agriculture



Real-time field conditions update and inform optimal farm management plan



Farm/crop management plans flawlessly executed in the field

## Transportation



Real time road, vehicle, and driver conditions aligned, managed and optimized to meet customer needs



# Connected Construction - eliminating disconnects

## Between Stakeholders

Owner ⇌ AE ⇌ GC ⇌ Sub-Contractors

Project Capital Program  
Management

Project Document and  
Contracts Management

Production Schedule, Work  
Order Management  
and As-Build QA



## In the Office

Business ⇌ Project/Team ⇌ Field

Between departments

BPMs ⇌ Distributors ⇌ Contractors



Reporting



Procurement



Job Cost



Scheduling



Labor



Tablet



Instrument



Equipment



Material

# The Constructible Model is enabled by precision spatial data

Digital data supports the entire lifecycle

- Pre-construction
- Site layout
- Post-construction





The integration of the digital and physical worlds enable enables physical actions to be fully integrated with the model



The integration of the digital and physical worlds enable enables physical actions to be fully integrated into the model context



Trimble | SiteVision

# Precision maps and geospatial models are enabling significant progress on the path to autonomy

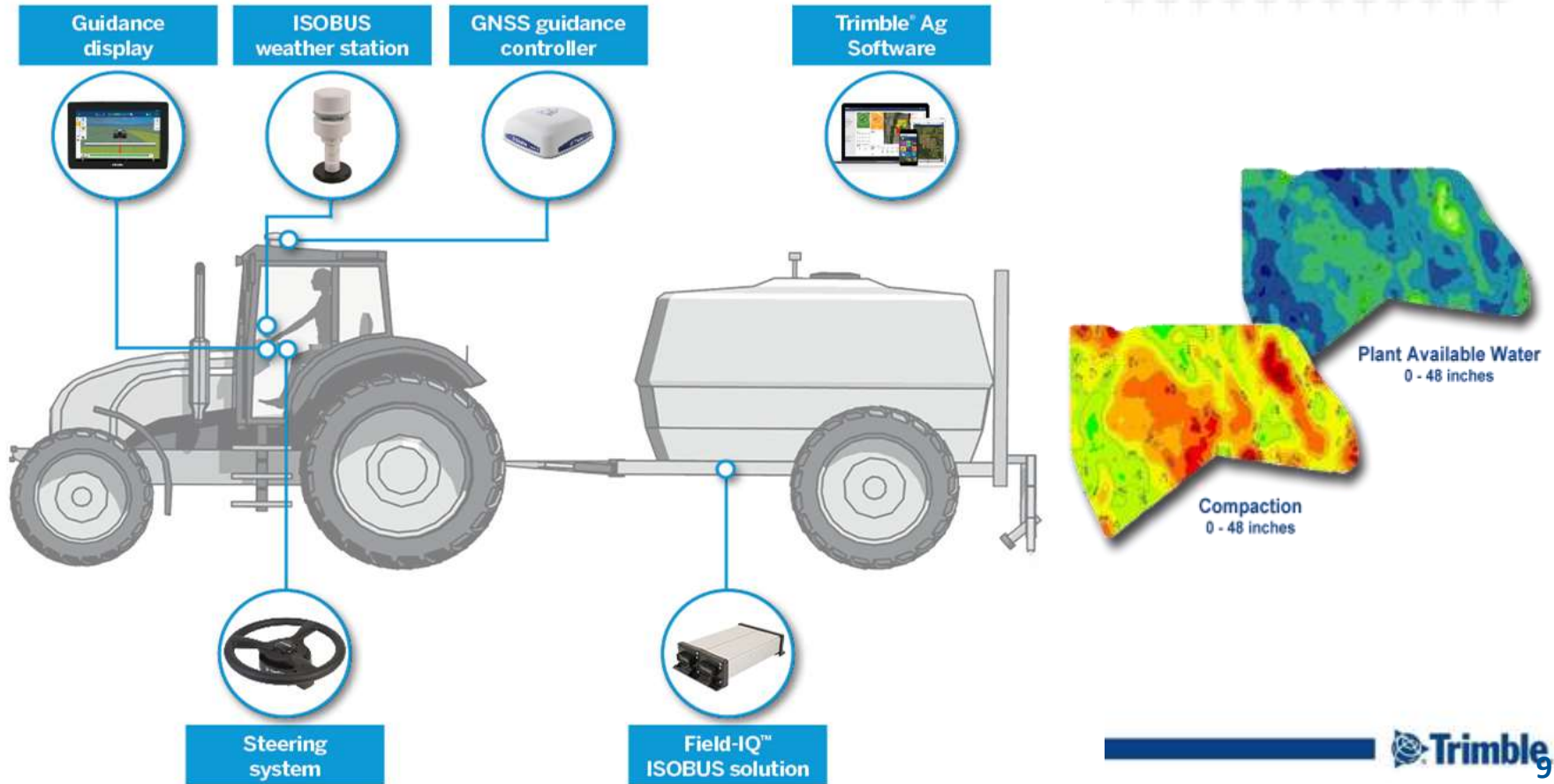




Radical agricultural improvements are enabled by precise position, connectivity, and data access



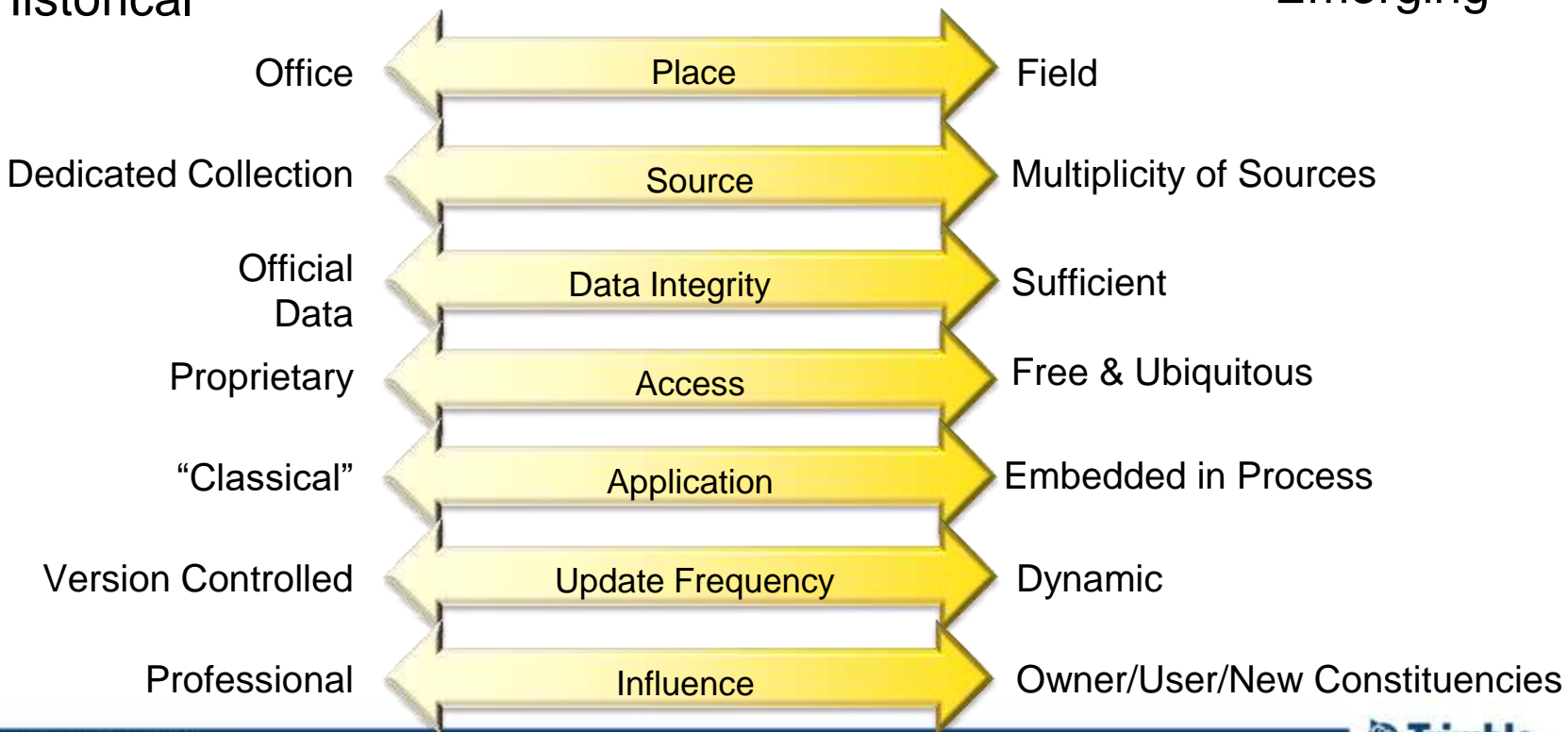
# The machine or the tool becomes an extension of the model



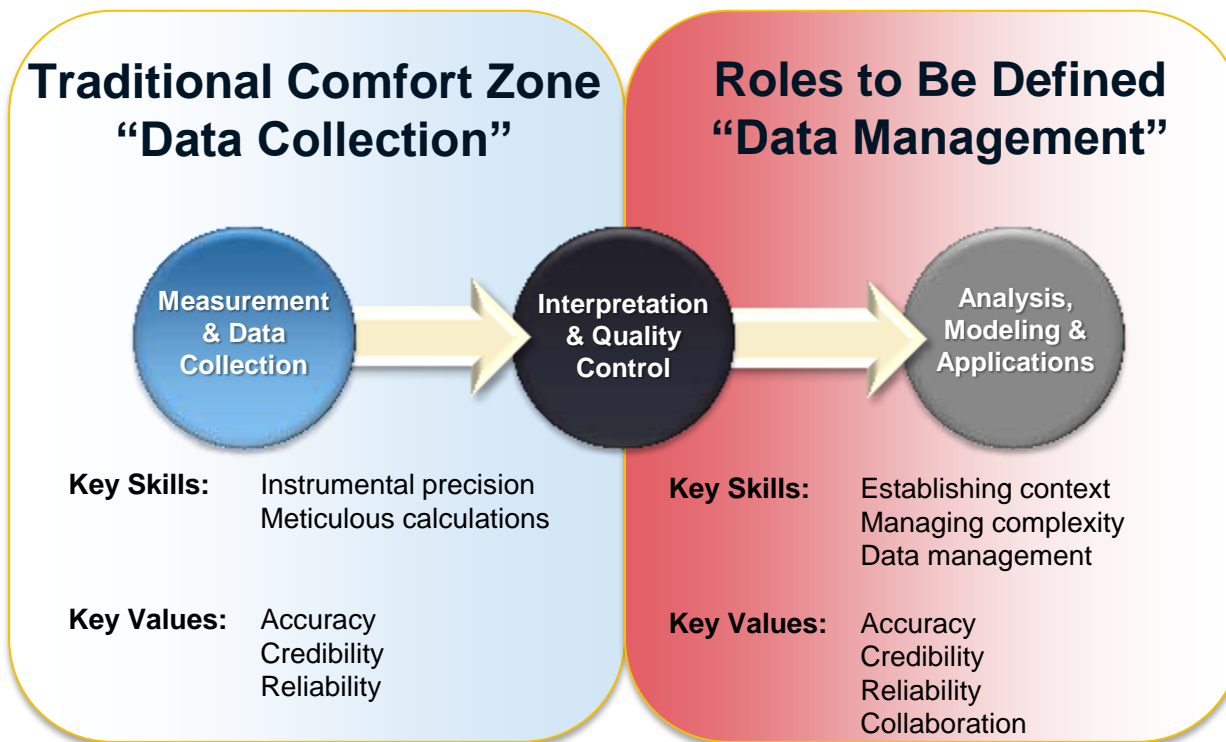
# The convergence of physical and digital changes the context for the creation and use of geospatial data

Historical

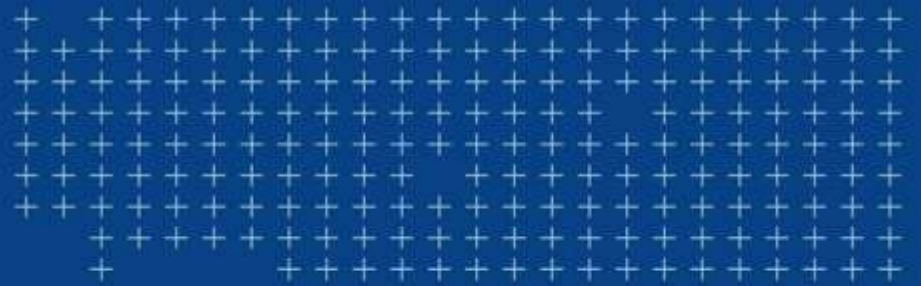
Emerging



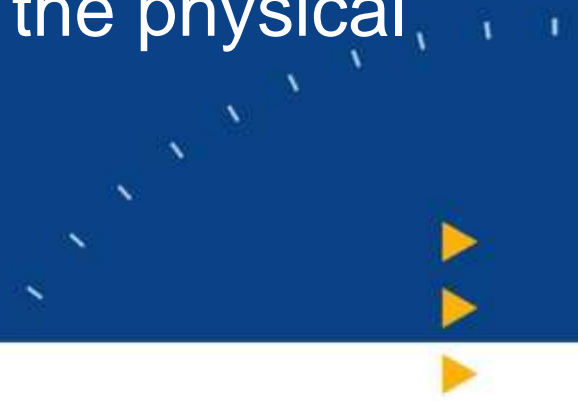
# Convergence impacts expectations placed on the geospatial practitioner







# Geospatial and the convergence of the physical and digital worlds



Steve Berglund, CEO