

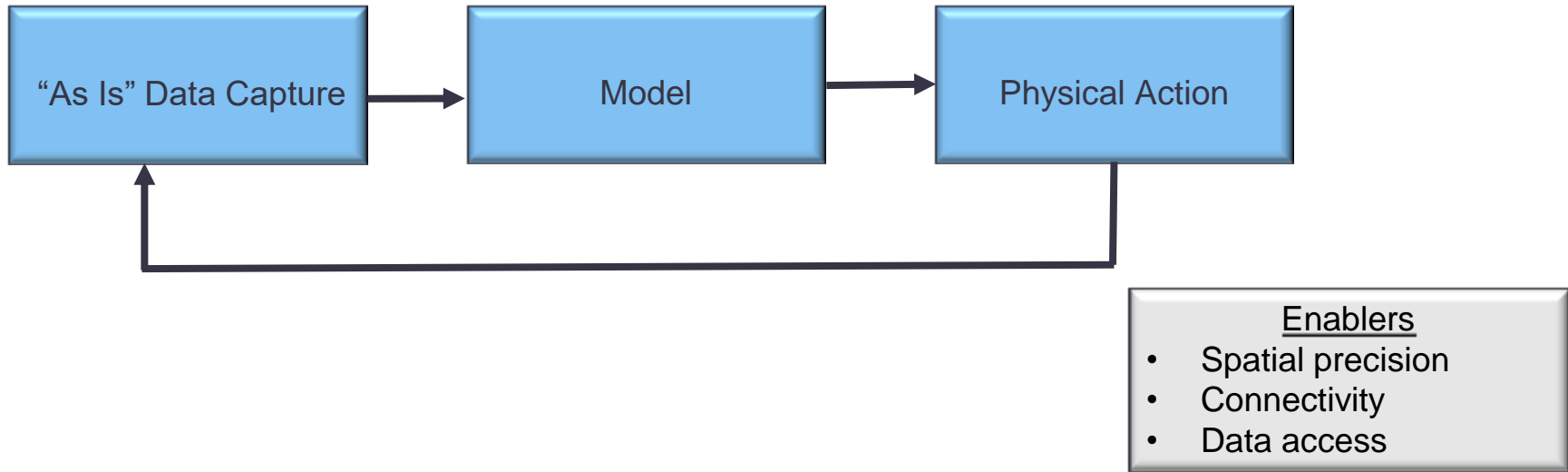
Convergence of the Physical and Digital AEC Worlds



Steve Berglund, CEO

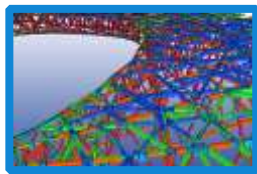


Spatial data is being deeply integrated into real time model-centric solutions



Spatial data is integral to work flow transformation

Construction

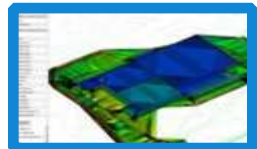


3D model at anchor bolt level detail drives pinpoint construction accuracy during fabrication and construction



Construction verification against the model

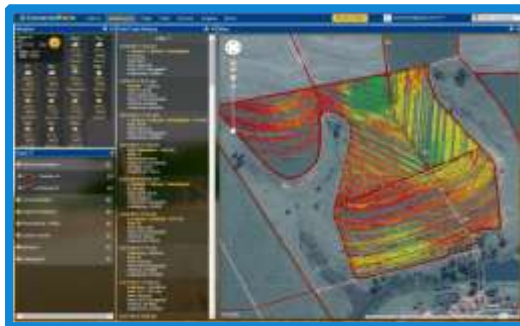
3D design model imported to the machine control and guidance equipment in the field



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

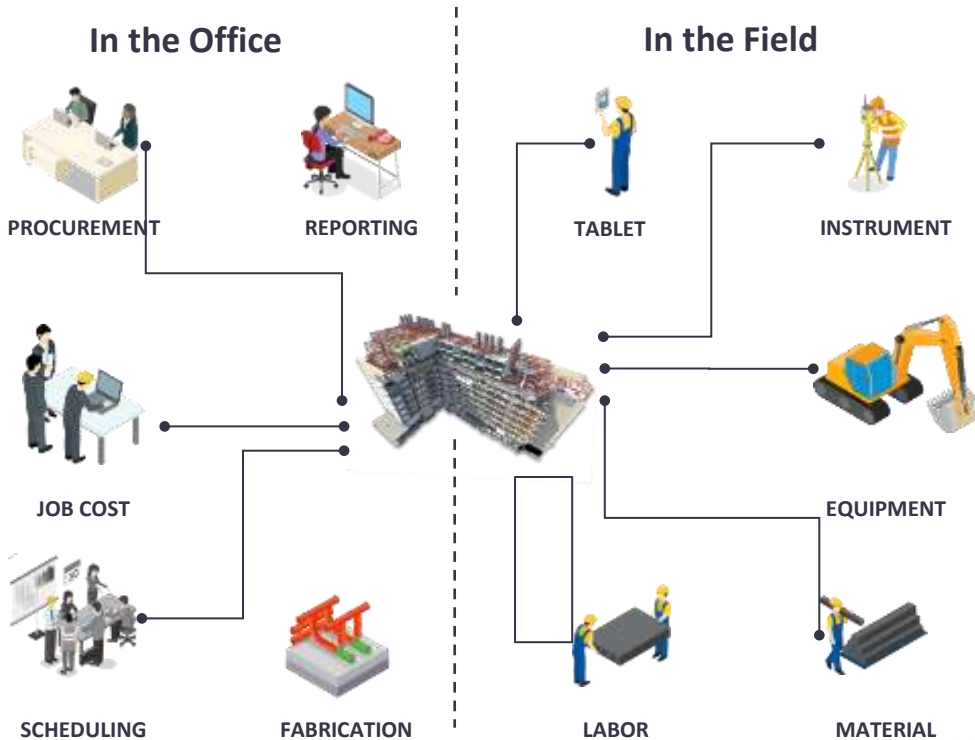
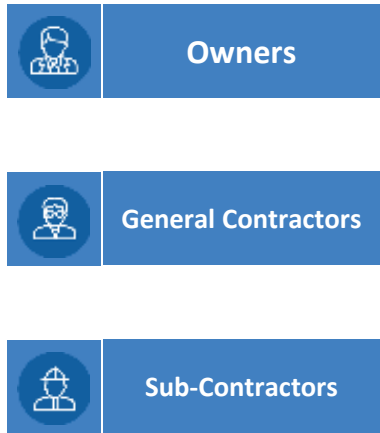


Real time road, vehicle, and driver conditions aligned, managed and optimized to meet customer needs



Open solutions touch all constituencies and all elements of the work flow

Among Stakeholders



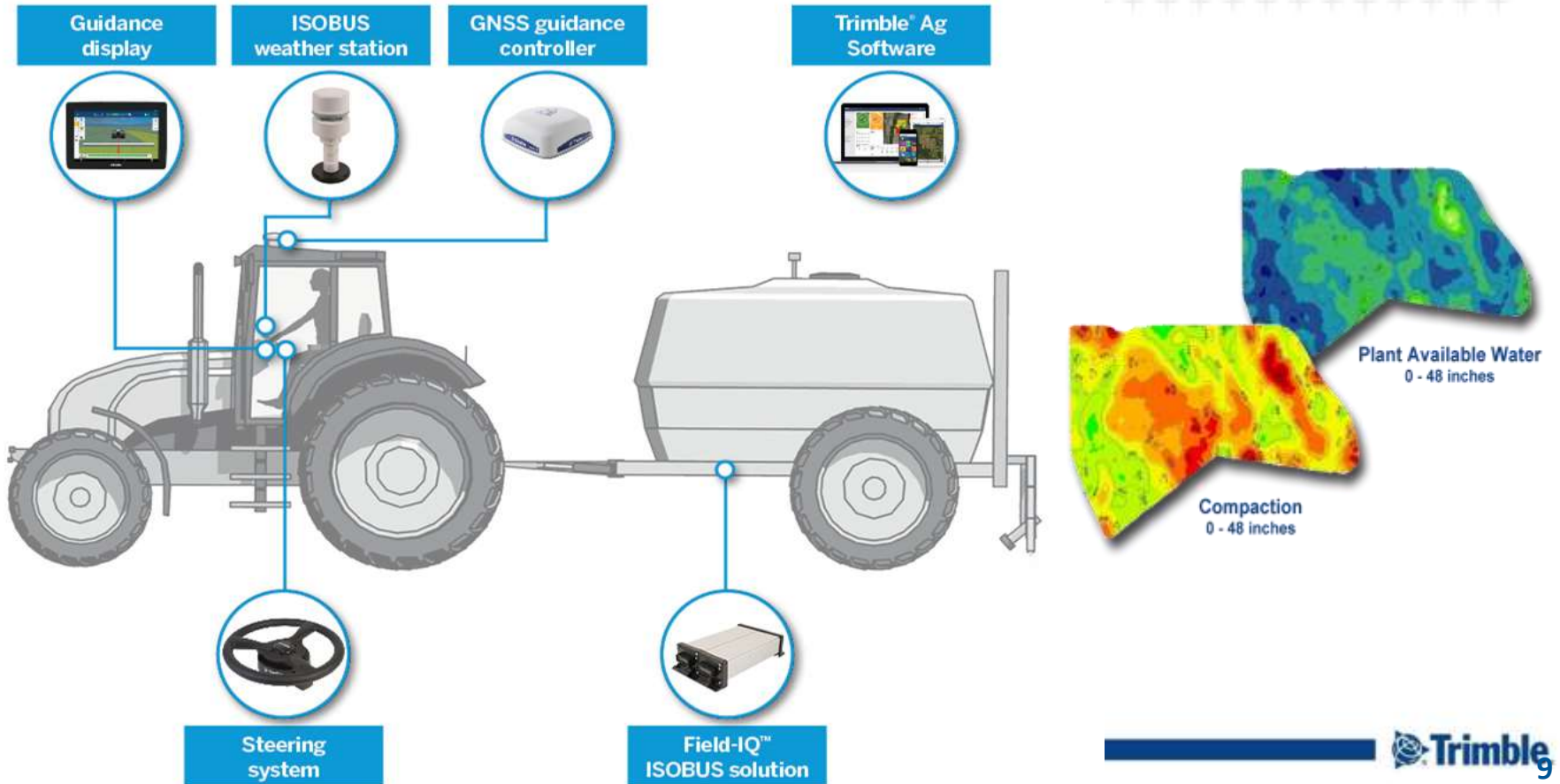
The Constructible Model is enabled by precision spatial data

Digital data supports the entire lifecycle

- Pre-construction
- Site layout
- Post-construction



The machine or the tool becomes an extension of the model



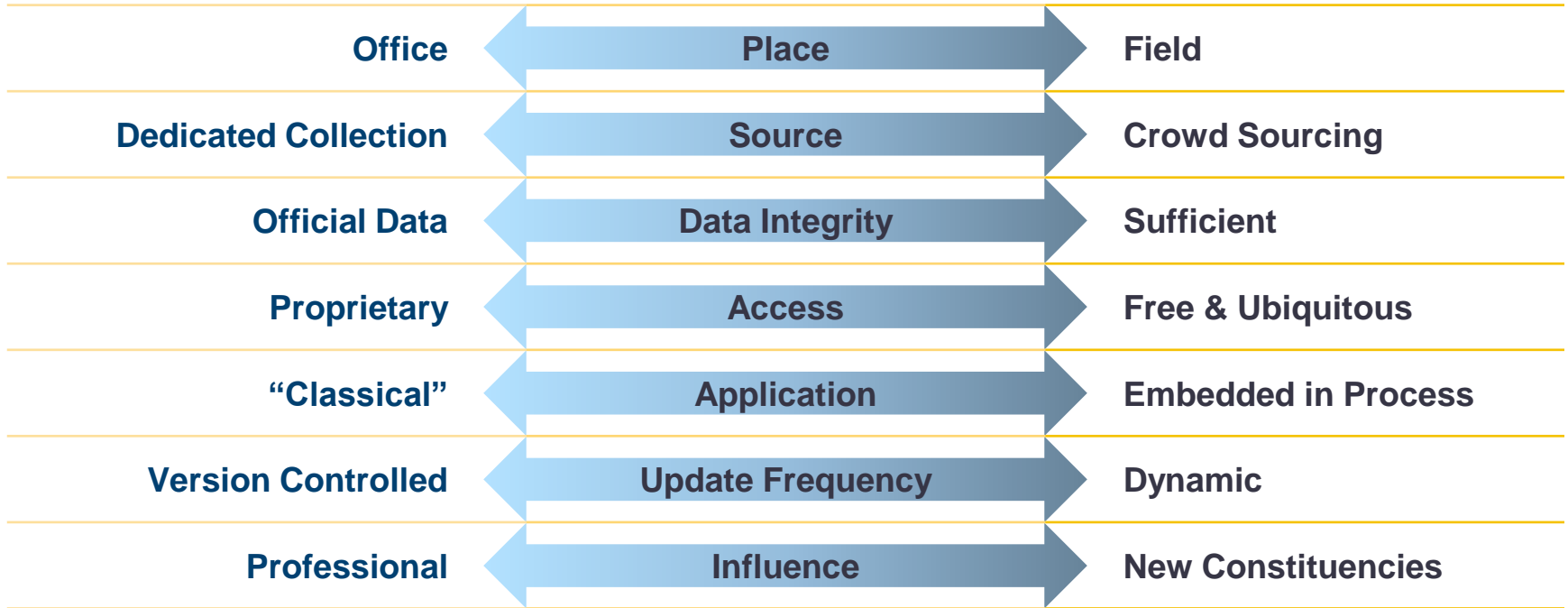
The integration of the digital and physical worlds enable enables physical actions to be fully integrated with the model



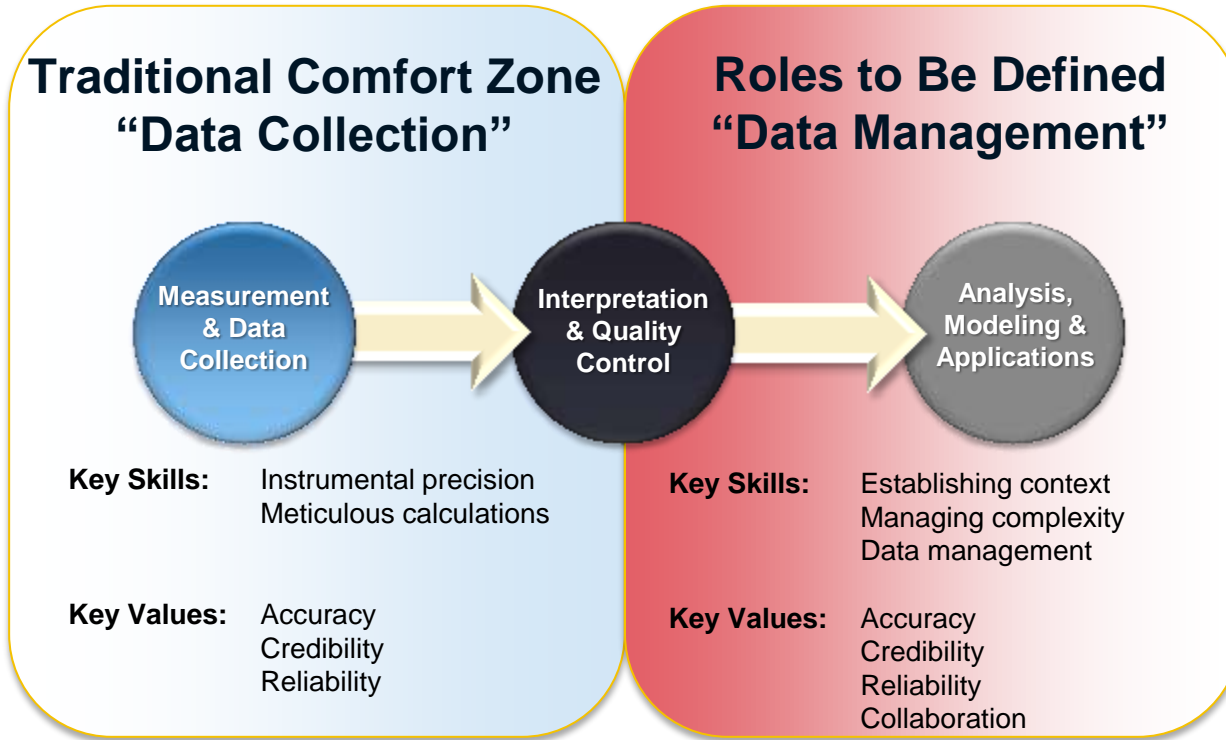
Precision maps and geospatial models are enabling significant progress on the path to autonomy

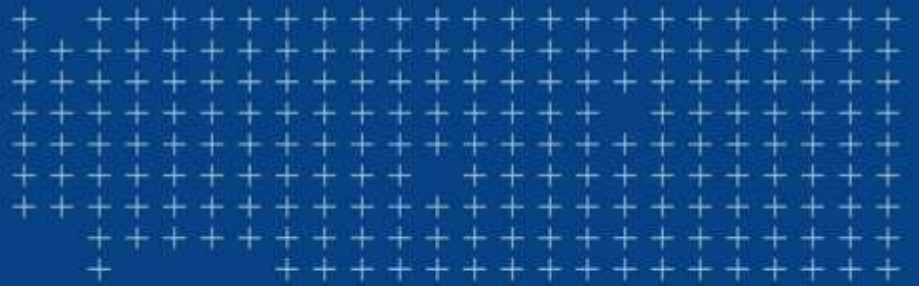


Transformative technology poses existential questions to multiple industries' work flows



Convergence impacts expectations placed on the geospatial practitioner





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