

## New Concepts in Bathymetric Source Data Storage and Manipulation



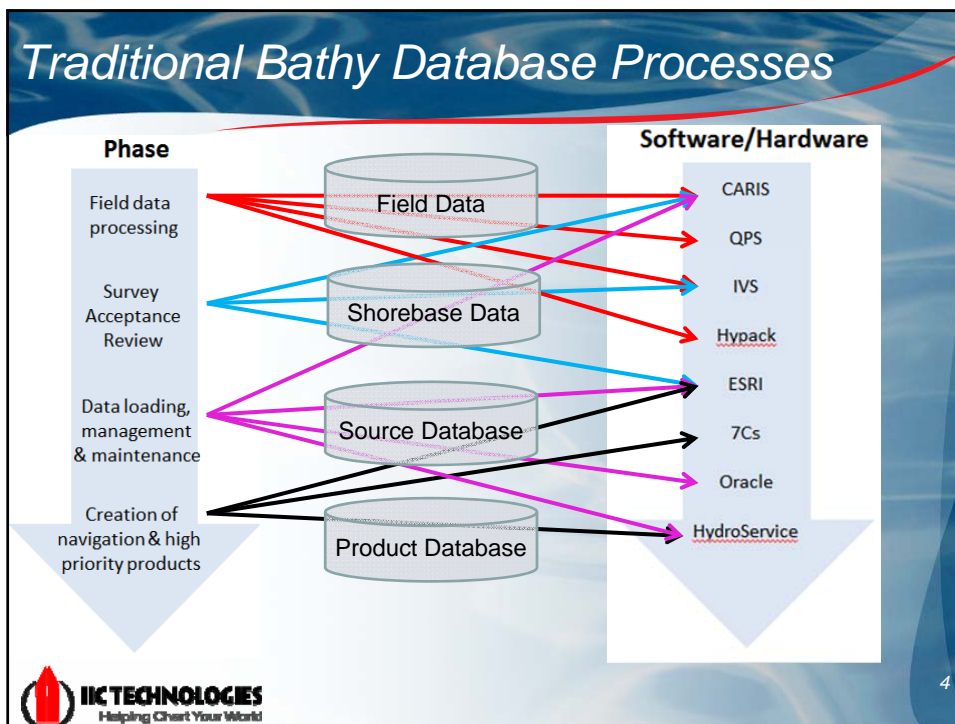
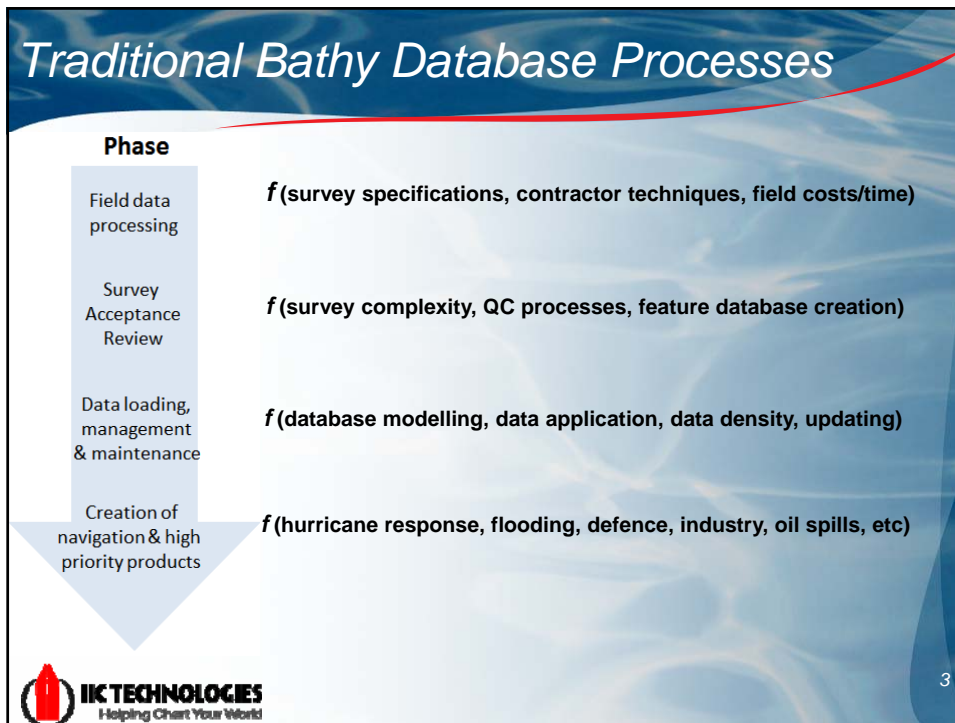
Derrick R. Peyton, John Conyon, Duncan Wardle

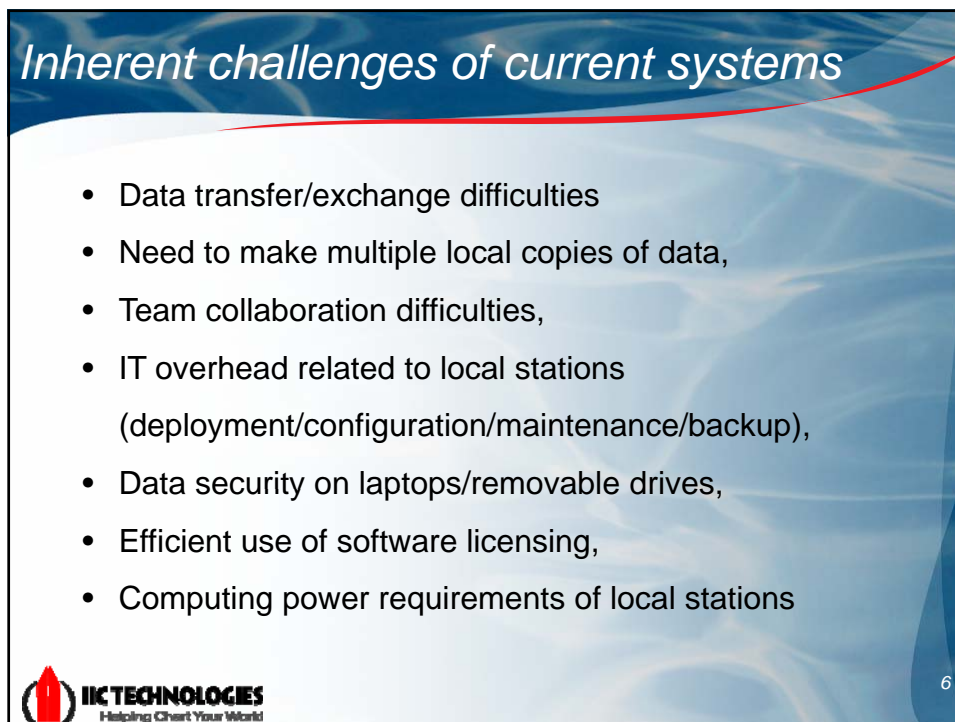
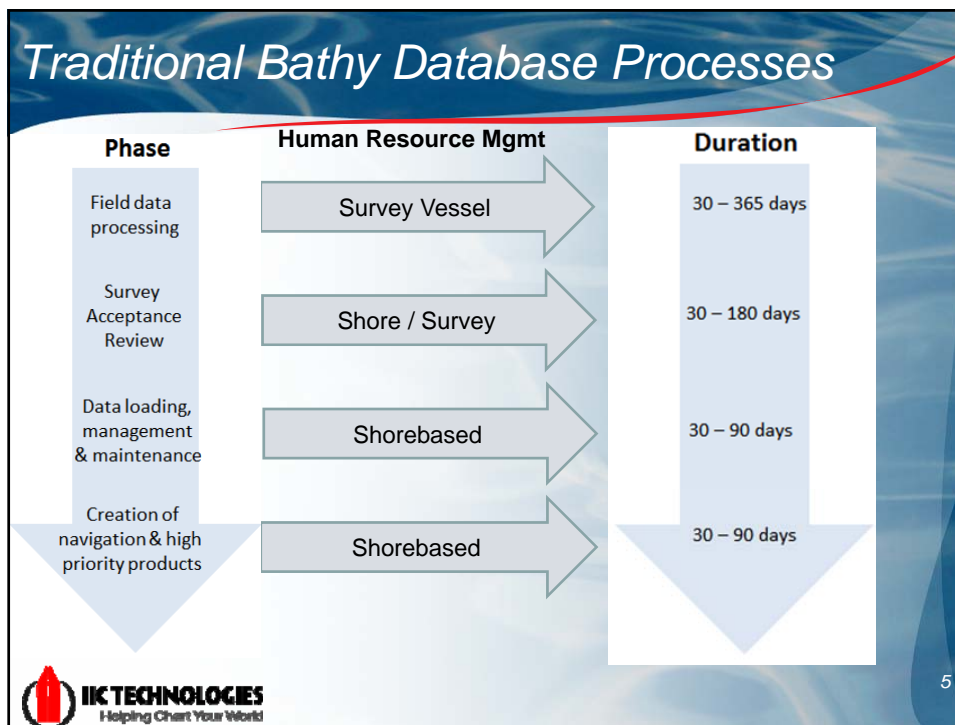


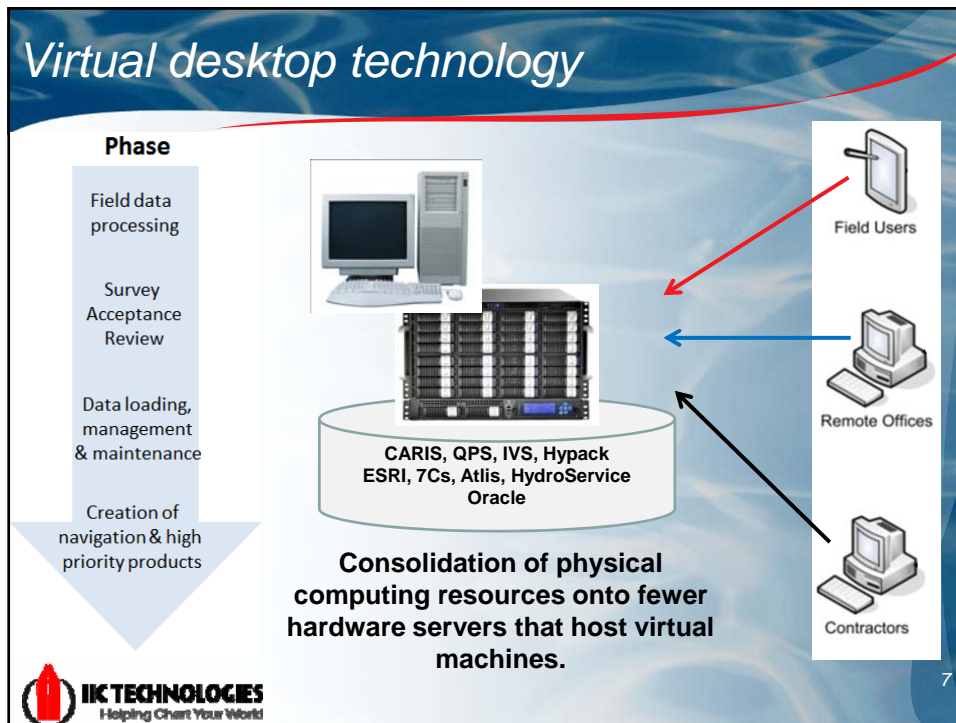
### Overview

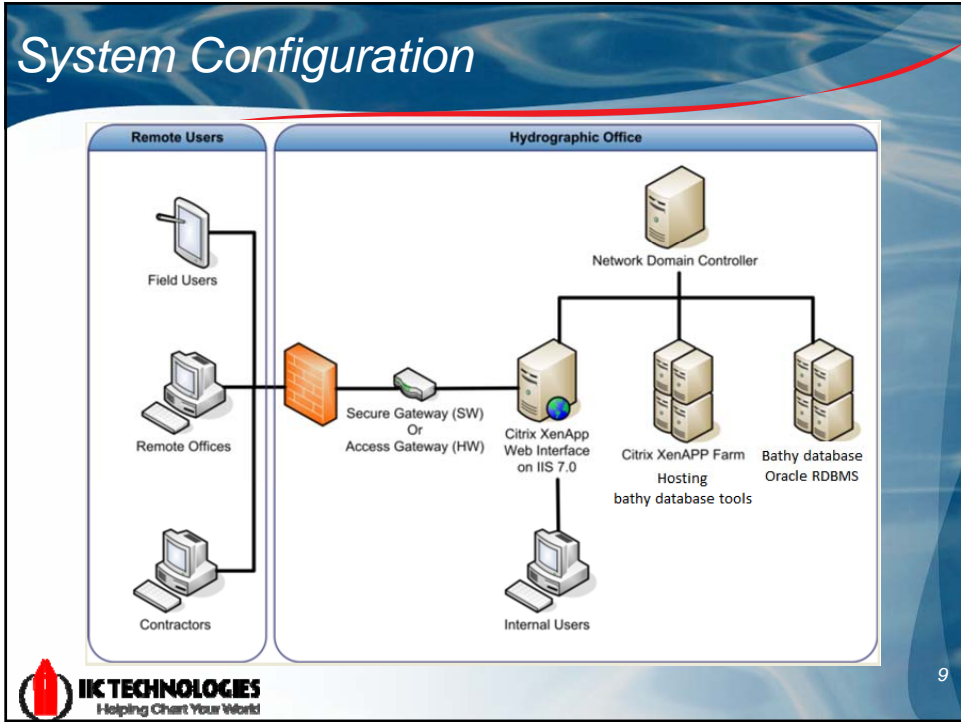
- Review of traditional bathy database processes
- Inherent challenges of current systems
- Virtual desktop technology
- Citrix users and typical configuration
- Benefits of Citrix technology











## Citrix Global Presence

### Citrix Business Partners

**Microsoft**  
GOLD CERTIFIED  
Partner

**intel**

**DELL**

**IBM**  
Business Partner

**ORACLE**

**hp**

**CISCO**

### Citrix Users

*"97% of Fortune Global 100 Now Use Citrix Software"*

**USA**  
 All 20 of the largest U.S. federal agencies  
 All 10 of the top U.S. banks  
 All 10 of the top U.S. automotive manufacturers  
 All 10 of the top U.S. healthcare organizations  
 All 10 of the top U.S. Oil and Gas companies

**Europe**  
 All 10 of the top banks  
 All 10 of the top chemical companies  
 All 10 of the top telecommunications service companies  
 9 of the top 10 high-tech companies

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## Benefits – Data Management

### Centralized data storage, application deployment and access controls

- data is often one of the most valuable assets for any organization and should be protected at all times both from accidental destruction/corruption and unauthorized access/release
- centralizing data storage and providing adequate access controls is the cornerstone of Citrix's platform with a view that data can be more effectively protected and managed when located on central servers where central data security policies can be much easier applied

## Benefits – Data Security

### Data access versus data exchange

- physically exchanging data between various parties makes data vulnerable to a variety of security threats
- Independent Computing Architecture (ICA) is a proprietary encrypted protocol designed by Citrix which is used to facilitate remote access to data via applications. ICA never transmits the actual data but rather an optimized replica of the screen is transmitted to the end users
- This approach eliminates the security threats associated with data transfers whether electronic or physical since data remains safely at the central servers and cannot be destroyed or copied without an authorization

## Benefits – User Security

### User identification and authorization methods

- A variety of user identification options are attainable, from basic to enterprise grade.

### Granular control over user access rights and access scenarios

- This architecture is a true multi-user solution which **permits implementation of variety of multi-level access scenarios**
- it also provides **centralized tools for user access management, advanced access control and password management**



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## Benefits – Data control

### Data control


- **Limiting the physical movement of data** from workstation to workstation and/or location to location
- **Limiting the need to manage various copies of data**
- using centralized data storage and remote application access can greatly reduce such risk by not only **limiting exposure to laptop theft and hard drive failure as well as being able to more effectively protect it**



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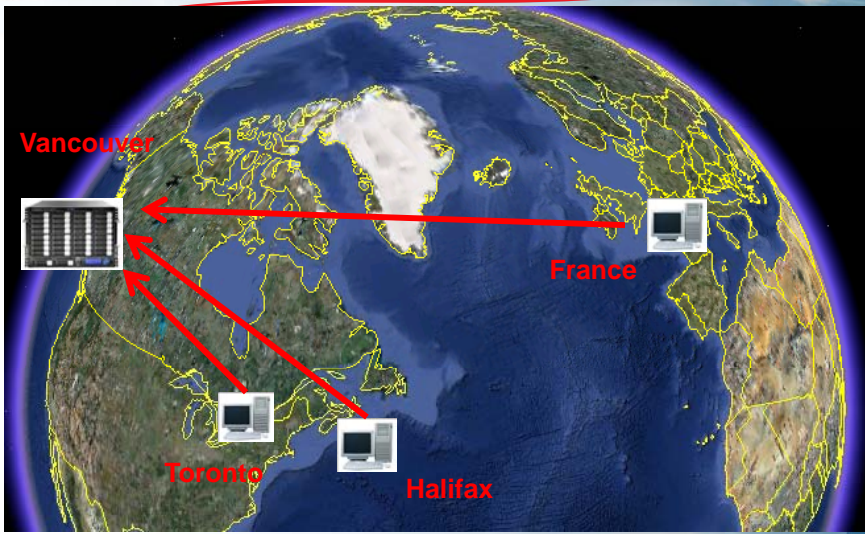
## Benefits - Other

- Optimization of Resources**
  - Training
  - Bottlenecks
  - Geographic
  - Independent
- Optimization of Infrastructure**
  - System configuration
  - Software allocation
  - Hardware allocation
  - Version Control
- Efficiencies**
  - Shipping Delays
  - Data Management
  - Collaboration
  - QC



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## Our Experience - Now



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*In The Future ??? (reduce bunk space)*

Thin Client

Central Server

More... Map Satellite Earth

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