IIC Technologies Ltd.

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COMPANY INTRODUCTION

IIC TECHNOLOGIES

- Established 1992
- 1500 people
- 200 marine specialists
- 12 locations
- 1 team

We use technology to communicate experience to facilitate capacity building.

ISO 9001:2008
BUREAU VERITAS
Certification

COMPANY INTRODUCTION

IIC TECHNOLOGIES

NEW WEBSITE

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Industry Focused Solutions and Services

NEW WEBSITE

IIC TECHNOLOGIES

COMPANY INTRODUCTION

IIC TECHNOLOGIES

Data Value Chain

Data Acquisition

- Multibeam
- Airborne Bathy Lidar
- Sidescan
- Subbottom Profiler
- Magnetometer
- Satellite Imagery

Survey Data Processing

- Bathy Data Cleaning
- Surface Modeling
- Image processing
- Deconfliction

Marine Products

- ENCs / IENCs
- Military Overlays
- Paper Charts
- Nautical Pub
- Notice to Mariners

Verification & Validation

- Spatial Accuracy
- Feature Verification
- Logical Consistency
- 3rd Party Checks
- Vertical/Horizontal Consistency

Updating & Maintenance

- Database maintenance
- Data Assessment
- Data critical updates
- Data management
- Data warehousing

Capacity Building

COMPANY INTRODUCTION

IIC TECHNOLOGIES

Hydrographic Data Management System

GCS - KSA

KSA HDM

Requirement to build the infrastructure and develop necessary ‘Hydrographic Data Management’ (HDM) capabilities

Meet the governmental requirements of a National Hydrographic Service and to administer a wide variety of oceanographic and marine sciences data.

Key Objectives and Deliverables

- Evaluate hardware and software solutions for the operation of a hydrographic, oceanographic and marine sciences services
- Develop the work processes and the necessary Standard Operational Procedures (SOPs)
- Train GCS staff
- Establish a quality management system (QMS) that can be certified against ISO 9001
- Develop the capability in GCS to support a Marine Spatial Data Infrastructure (MSDI) (Hydro – geo portal interface)
- Deploy all developed sub-systems

System Architecture Overview

HDM Products

Standard Operational Procedures

- Development of Standard Operating Procedures for all systems
  - ✓ 11 Bathymetric System
  - ✓ 15 Hydrographic Production
  - ✓ 5 Oceanography System
  - ✓ 2 Workflow Management System

HDM World-Class Products – Bathymetry

HDM World-Class Products - PNC

HDM World-Class Products - ENC

HDM World-Class Products – CZM Base

HDM World-Class Products – CZM Overlay

HDM World-Class Products – Custom Product

HDM World-Class Products – Tide Tables

HDM World-Class Products - WfMS

IIC Shoal Analysis solution implemented for IWAI on river Ganga, India

WebGIS River Shoal Analysis Solution

- A WebGIS decision support system (DSS)
- Automate process of identifying & predicting shoal formation in a particular month / year at a particular place in the river course.
- DSS developed to achieve the objective of Safe Inland Navigation for promoting Business and Tourism on river stretch in scope.

WebGIS River Shoal Analysis Solution

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Bing Maps Base Map

Map Screen – Layers

WebGIS River Shoal Analysis Solution

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NEW PATHS, NEW APPROACHES

WebGIS River Shoal Analysis Solution

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Prediction Visualization & Report

Prediction Report

Water Level	Target Depth	Chainage	Location	Depth
40.8	3	954.7	D/S Bader Ghat	2.8
40.8	3	954.3	D/S Bader Ghat	2.95
40.8	3	953.8	D/S Bader Ghat	2.96

Web GIS solution for Port

WebGIS Port Asset Management

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- IIC developed a webGIS based Port Asset Management with Mobile APP Access and Integration with Custom ERP to support real-time exchange of Operational and Financial information of Open Storage Areas in the PORT.

SURVEY OF LAND and DEVELOPMENT & MAINTENANCE OF WEBGIS BASED LAND ASSET MANAGEMENT SYSTEM (LAMS) with Mobile App Access

WebGIS Ports Asset Management

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NEW PATHS, NEW APPROACHES

WebGIS Ports Asset Management

IIC TECHNOLOGIES

NEW PATHS, NEW APPROACHES

WebGIS Ports Asset Management (MobileGIS App Access)

IIC TECHNOLOGIES

CONCLUSION

IIC TECHNOLOGIES

- Future is not just charts
- With advancement in Technology and rapid increase in sizes of vessels with limited drafts, there is need for precise and high resolution data.
- The mariner is looking at us for solutions to solve his problems at sea and this provides HOs / Local Authorities to offer new products/ solutions for safety of navigation.

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