



SI Next Generation Version 2.0 (V2.0)

Next Generation V2.0

- Commercial Off-the-Shelf Software (Customized)
- Integrated Web-Based Tools
- Relational Database, Flexible
- 2-Way Communication Hopper
- Near Real-Time Data Access
- Automated Data Integrity Checks, Spatial Analysis, Alerts
- Interagency Needs



Next Generation V2.0



Data Pathway



Acquire Data



Process Data



Access Data



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Acquire Data



Hoppers

- Reduce Hopper On-Board Computer Function/Maintenance
- 2-Way Communication Hopper
- Data Storage at Center
- OPs Display On-Board – Data Stream

All

- Improved Telemetry
- Data Integrity Alerts from Center
- Web-Based Tools – Previous loads & Near-Real-Time Data



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Setup and Data Transmission - Comparison

| | V1.0 | V1.5 | V2.0 |
|-------------------------------|------------------------|------------------------|---|
| Scow Project Setup | Contractor or District | Contractor or District | Center |
| Hopper Project setup | Contractor or District | Contractor or District | Center |
| Scow – daily summaries | N/A | N/A | **Generated through User Tools/Database |
| Scow – full dataset | Mail robot | Mail robot | **Mail Daemon or Web Service (at least daily) |
| Hopper – load/daily summaries | *Mail robot | *Mail robot | **Generated through User Tools/Database |
| Hopper – full dataset | Manual backup | **Vscript ***hourly | **Web Service >10 min. TBD |

*Internet service available, setup correctly

**Automated

***Internet service available, include previous 12-hrs

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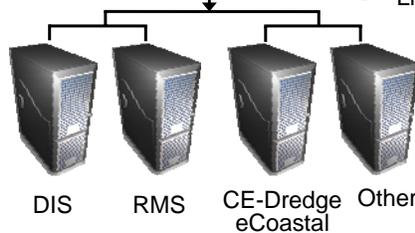
Process Data

- Automated Format Checks
- Automated Alerts

SI
Database



- Automated Checks: (Spikes, Gaps, etc)
- Automated Spatial Analysis
- Automated Alerts
- Calculated Cycle #s
- Manual Cleanup (when needed)
- Load & Daily Summaries
- Data Management/Archival
- Link w/Other Databases and Applications



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Process Data - Comparison

| | V1.0 | V1.5 | V2.0 |
|----------------------|--------|-----------------|--|
| QA/QC - Data Quality | Manual | Manual | Automated |
| Load Numbers | Manual | Manual | Calculated Cycle #s |
| Spatial Analysis | Manual | Ocean Disposals | Dredge Activities Dredging/Disposal |
| Metadata | NA | NA | Included |
| Database Population | Manual | Manual | Automated |
| Data Mgmt/Archival | Poor | Improved | Accessible/Long-term |

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Access Data



View, Graph, Analyze, Export
Disposal Plots, Summaries, Reports

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Accessible by USACE CAC Users – Dec 2009
 Corps CAC enabled Contract Inspectors – Dec 2009
 Contractors, password protected – May 2010

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Access Data - Comparison

| | V1.0 | V1.5 | V2.0 |
|----------------------------|----------|----------|-------------------|
| One-integrated tool | No | Improved | Yes |
| Simple find/access data | No | Improved | User Input |
| Expand GIS/Mapping | NA | Improved | User Input |
| Improve Graphs | Yes | Improved | User Input |
| Pre-Defined Graphs | No | No | Turtle Takes, etc |
| View all project data | limited | limited | Start to Current |
| Volumes, #Loads, etc | No | No | Yes |
| Form 27, 4267, etc | No | No | Through DIS/RMS |
| Export - local coord, time | Sporadic | Improved | Yes |
| Export Other Agencies | Manual | Manual | Coordinate w/All |

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***New System & Program
New Name & Logo ????
Contest Submittals - June 26,2009***

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