The ICAN Prototype

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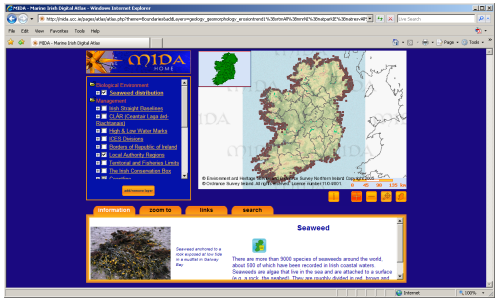
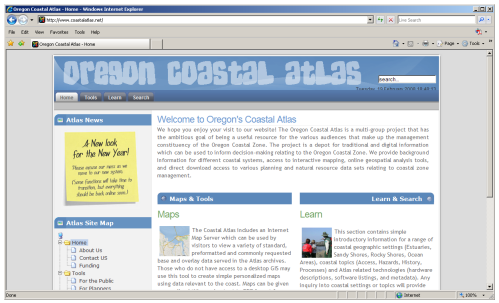
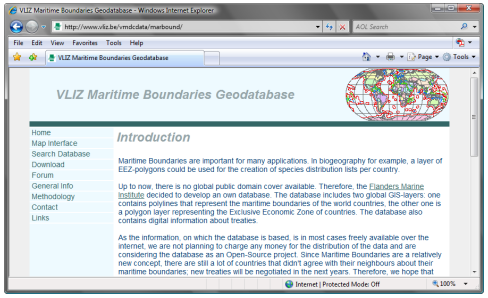
Problem





- Interoperability of distributed autonomous and heterogeneous coastal Web atlases (CWA)



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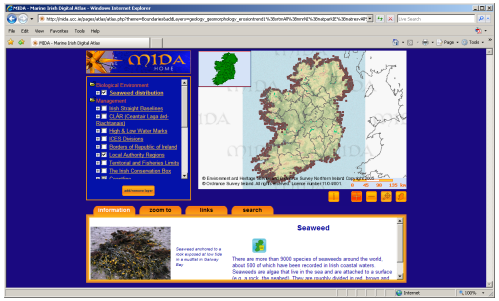
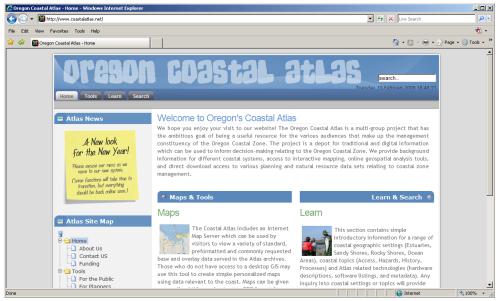
Idea

- Connect individual coastal atlases to an integrated global atlas

Global atlas

Local atlases





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Approach

- Centralised system

  → Resources are accessed through one central system (ICAN global atlas)

- Virtual integration approach

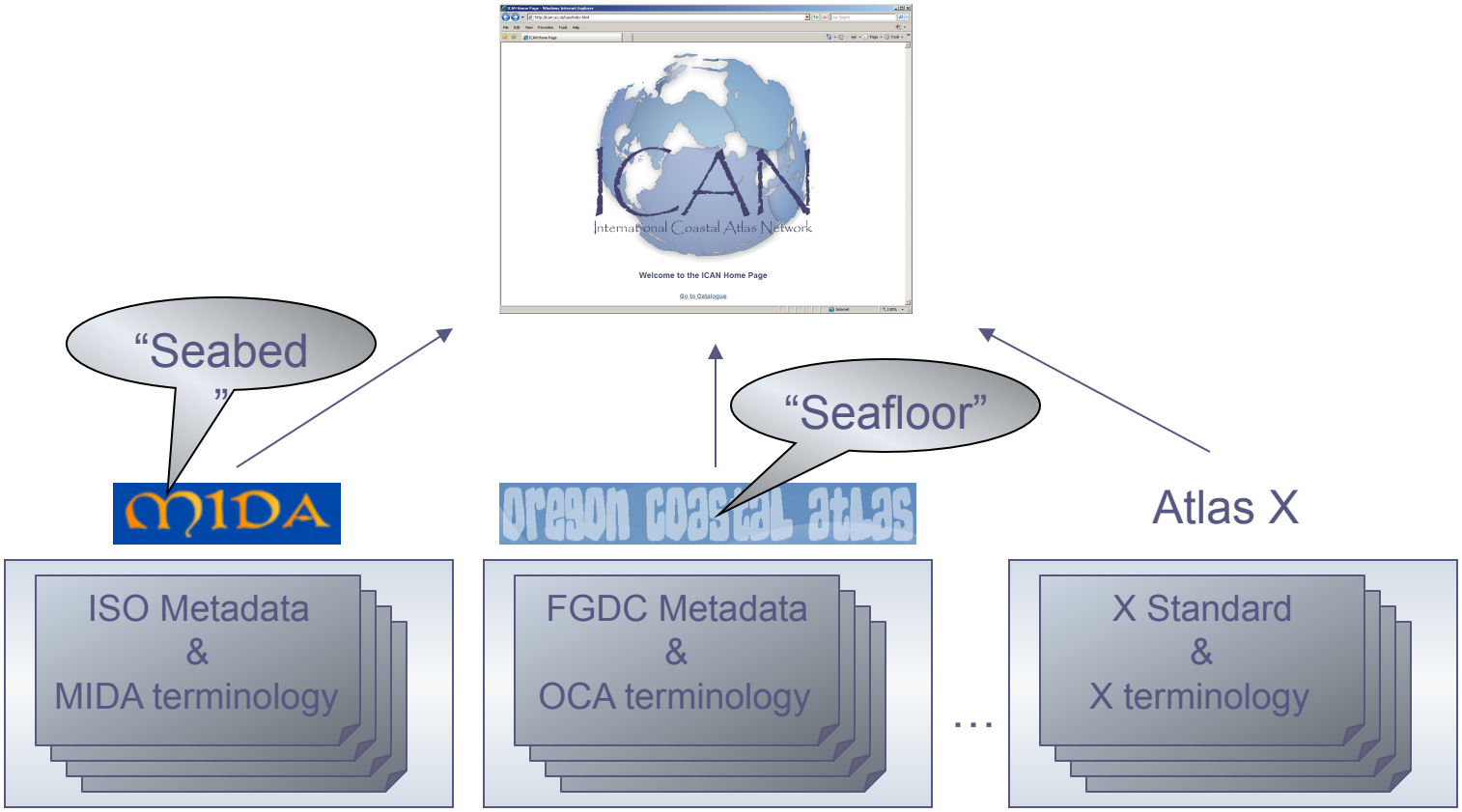
  → Data are not copied into the global Atlas

- Local atlases keep autonomy

  → Each data atlas is autonomous and organises resources in its own way

Approach

- Current focus is Metadata interoperability
- Prototype with a Coastal Erosion focus

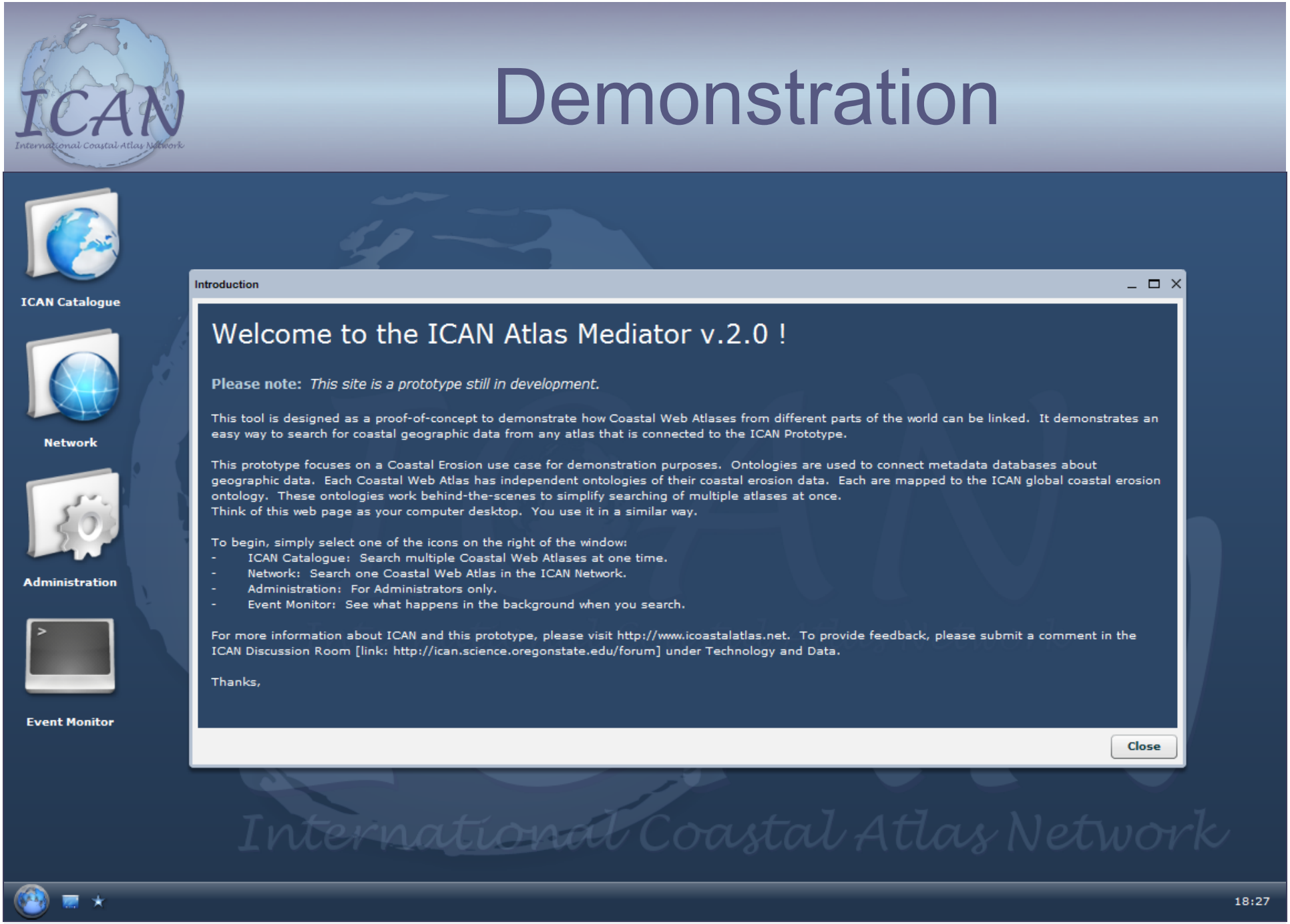


Demonstration

- Outline
- Problem
- Terminology
- Idea
- Approach
- Architecture
- Ontologies
- Mappings
- Query Rewriting
- Progress to Date
- Demonstration
- Conclusion
- Future Work

http://ican.ucc.ie

Demonstration



Demonstration

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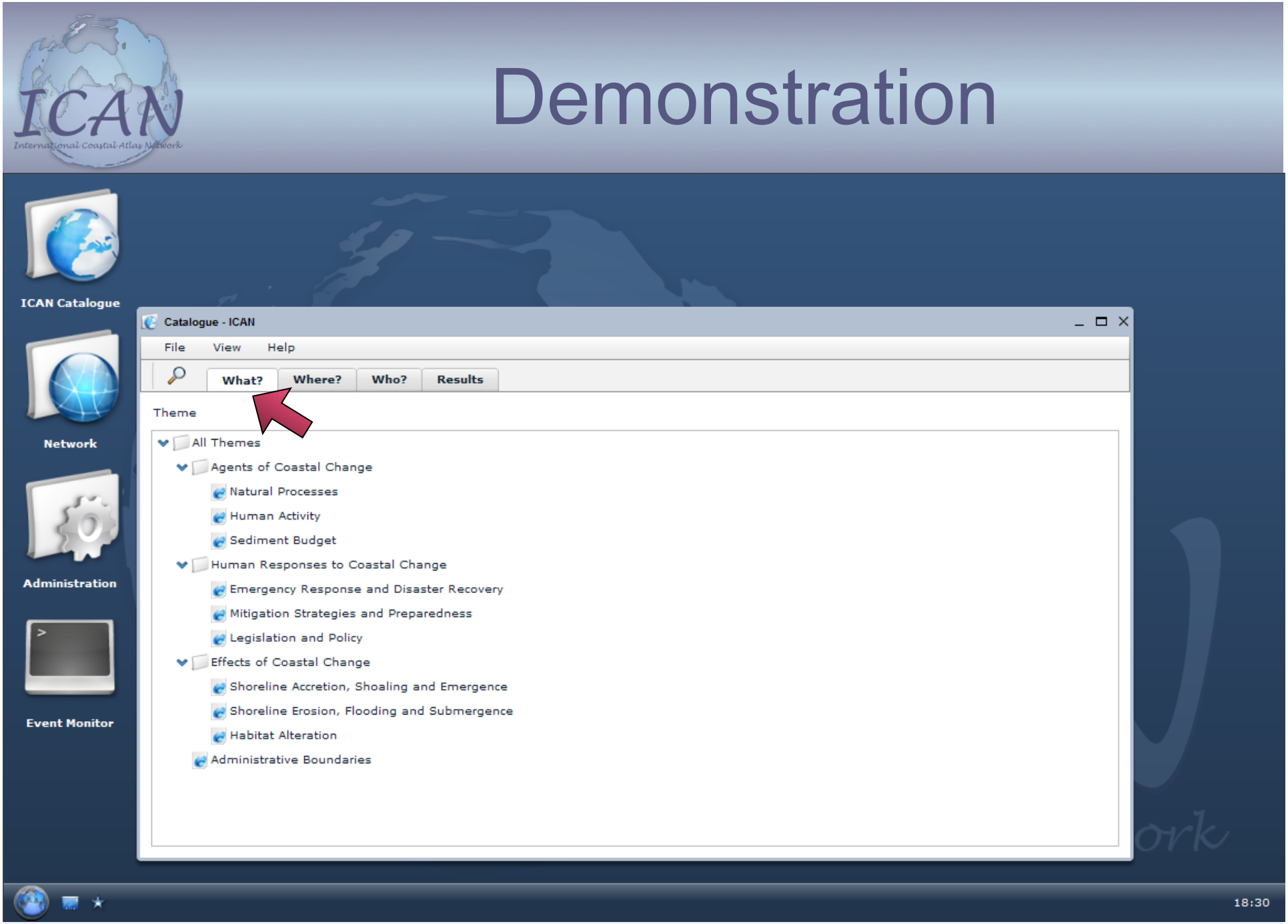

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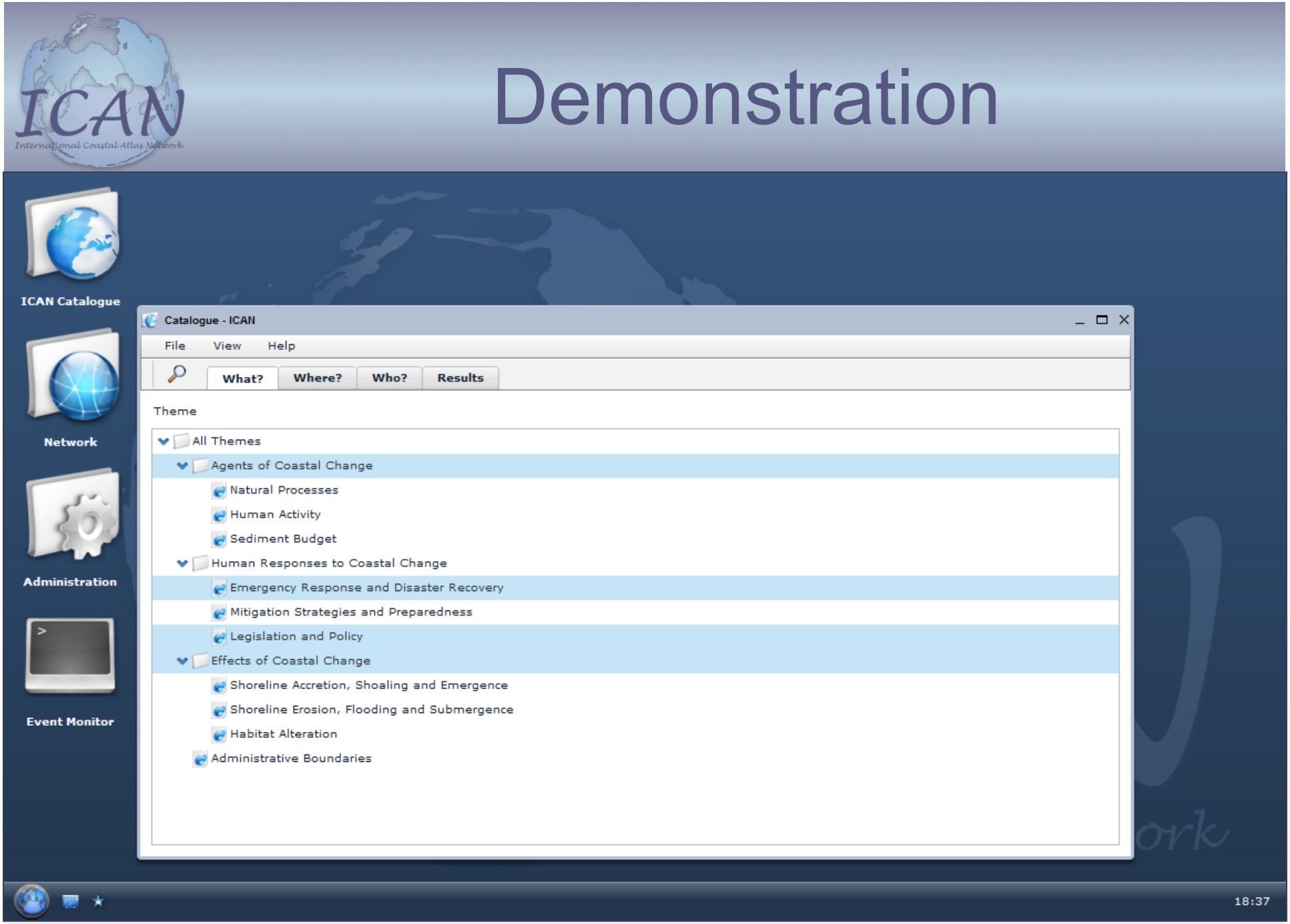

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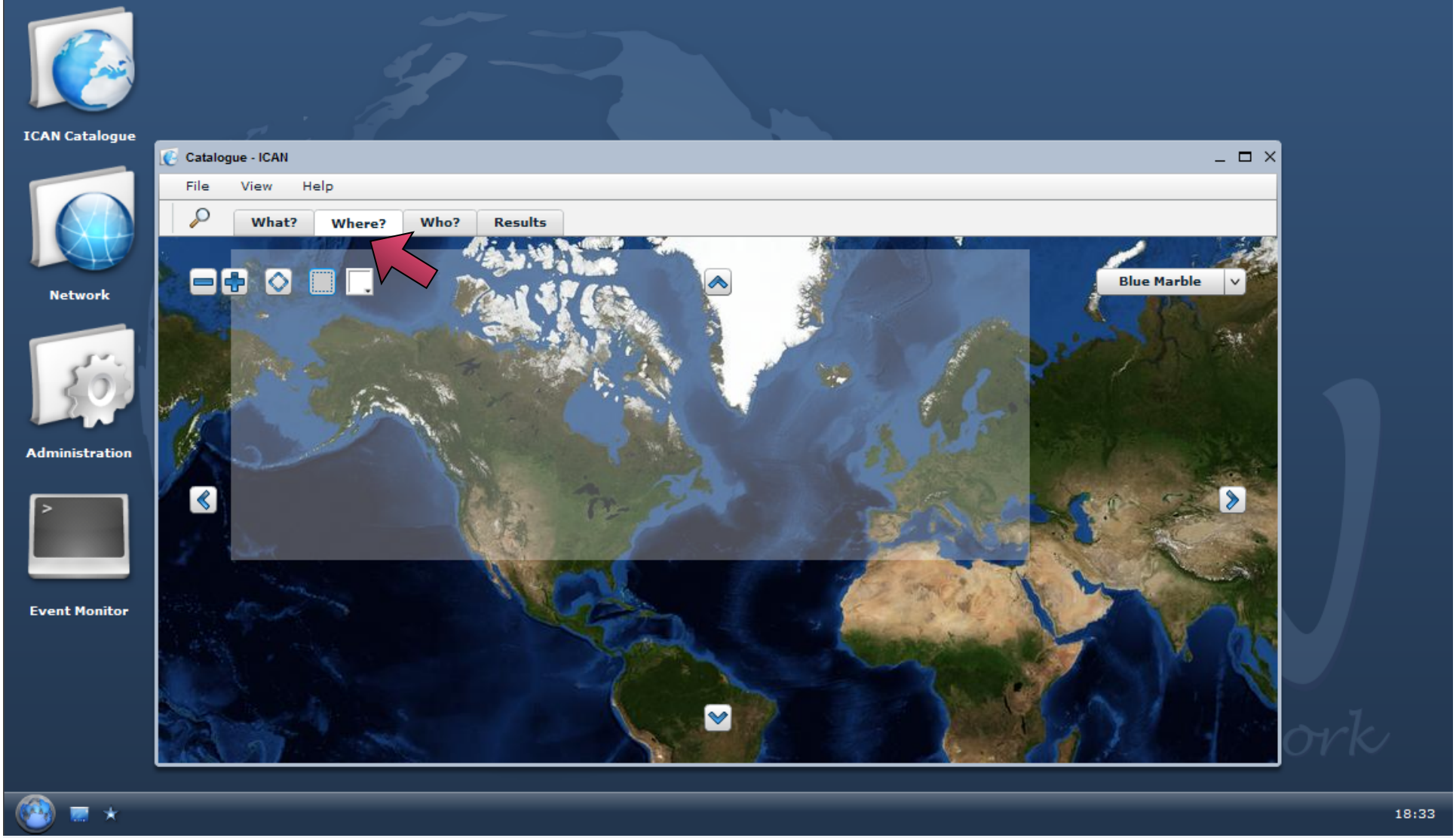

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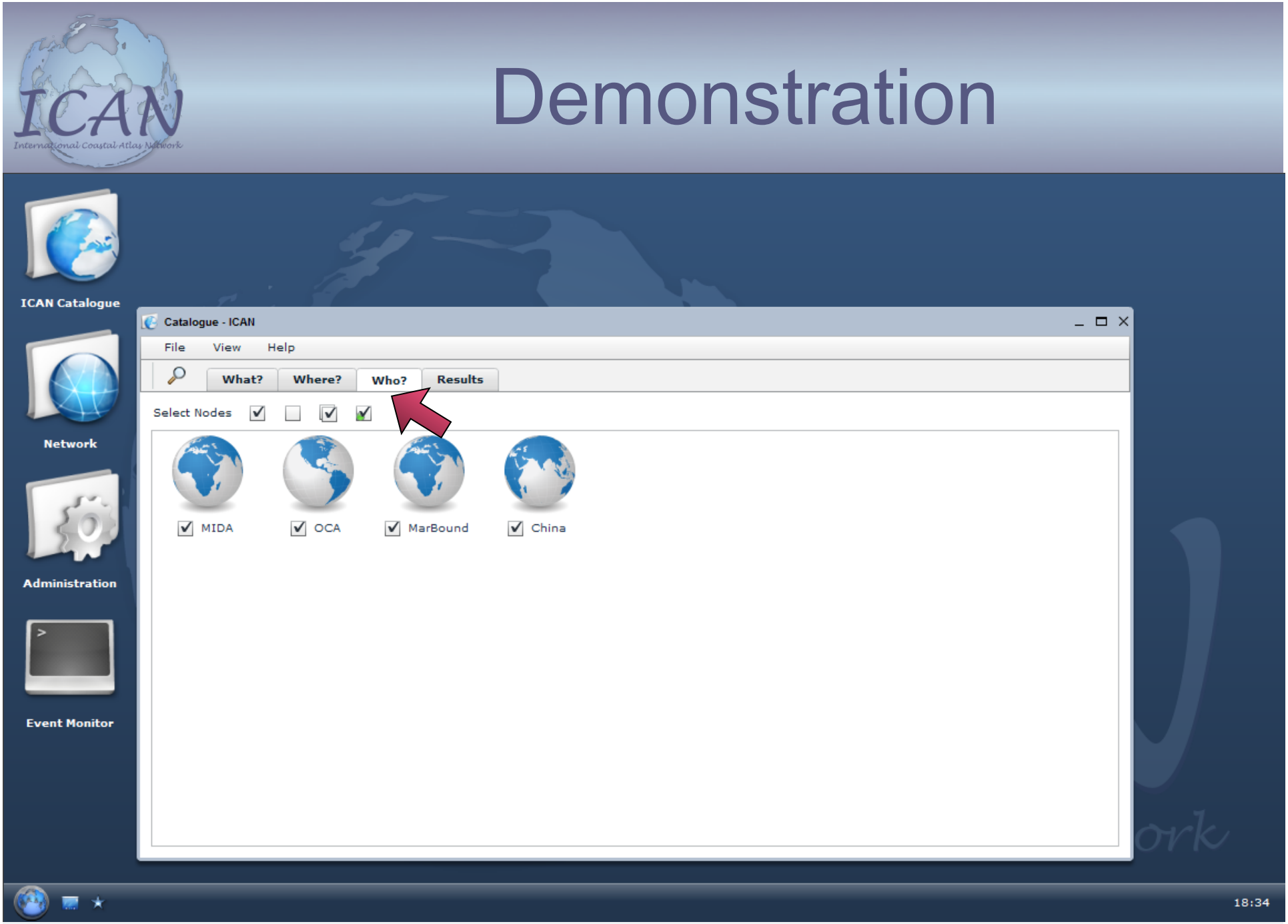

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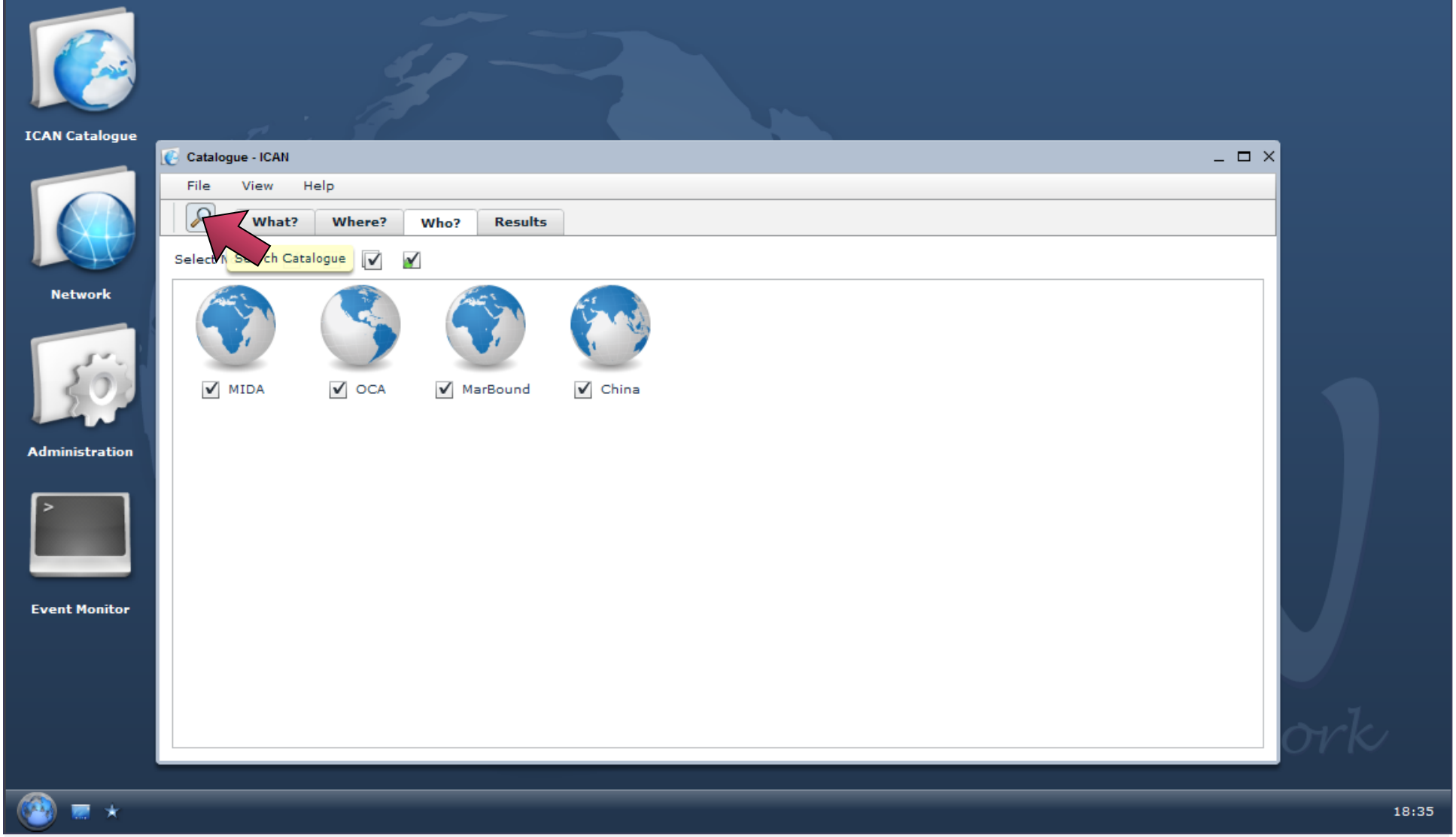

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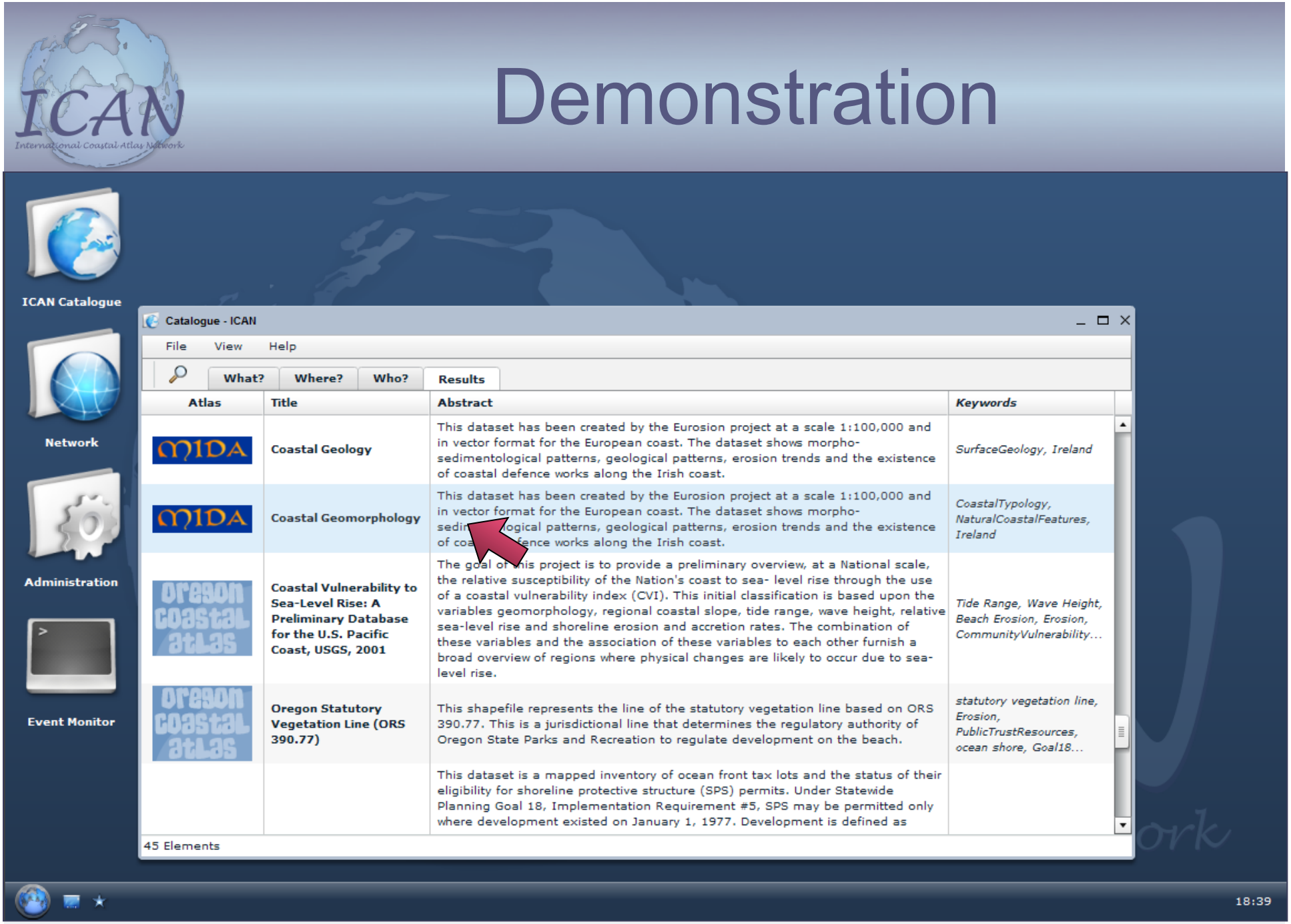

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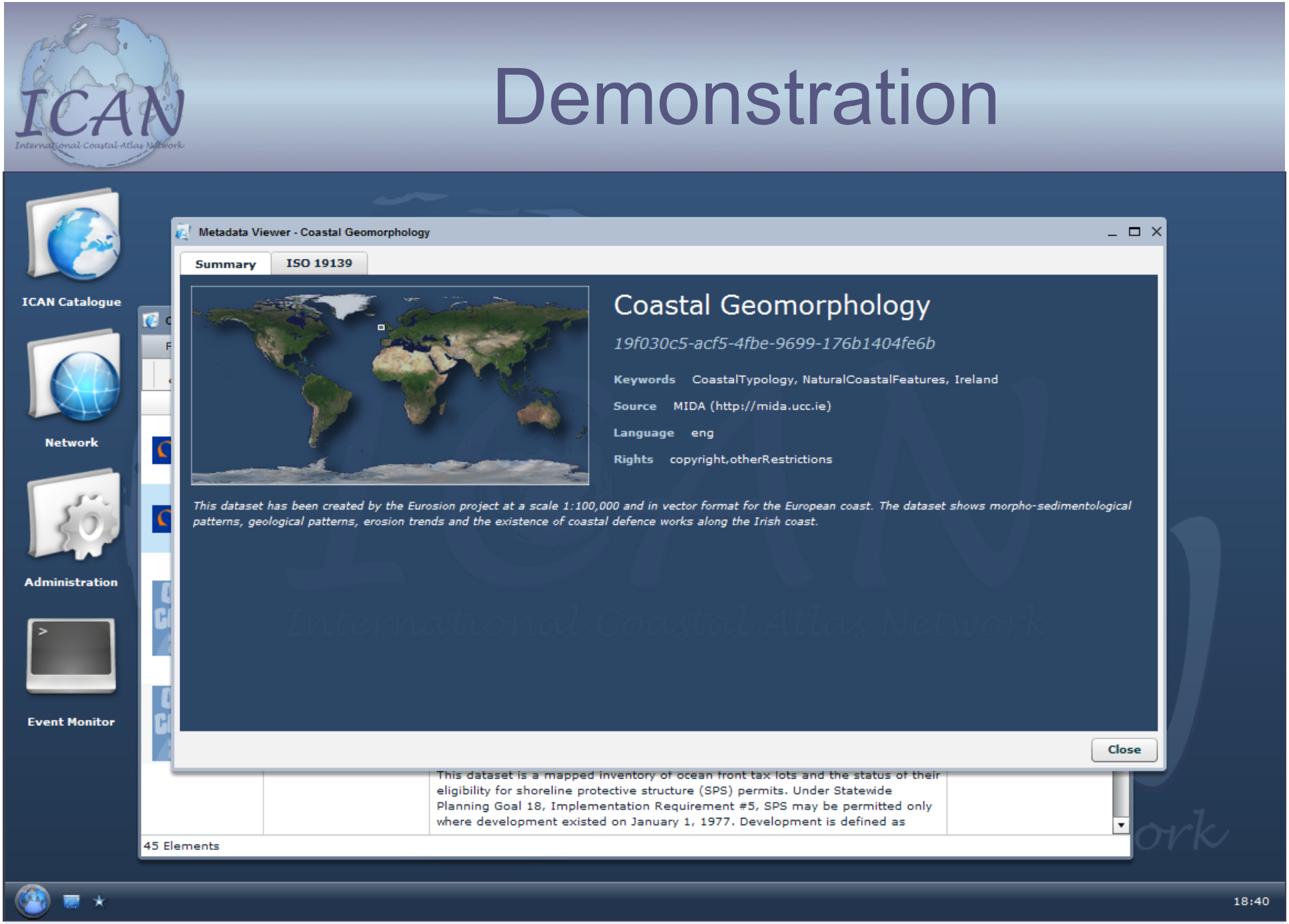

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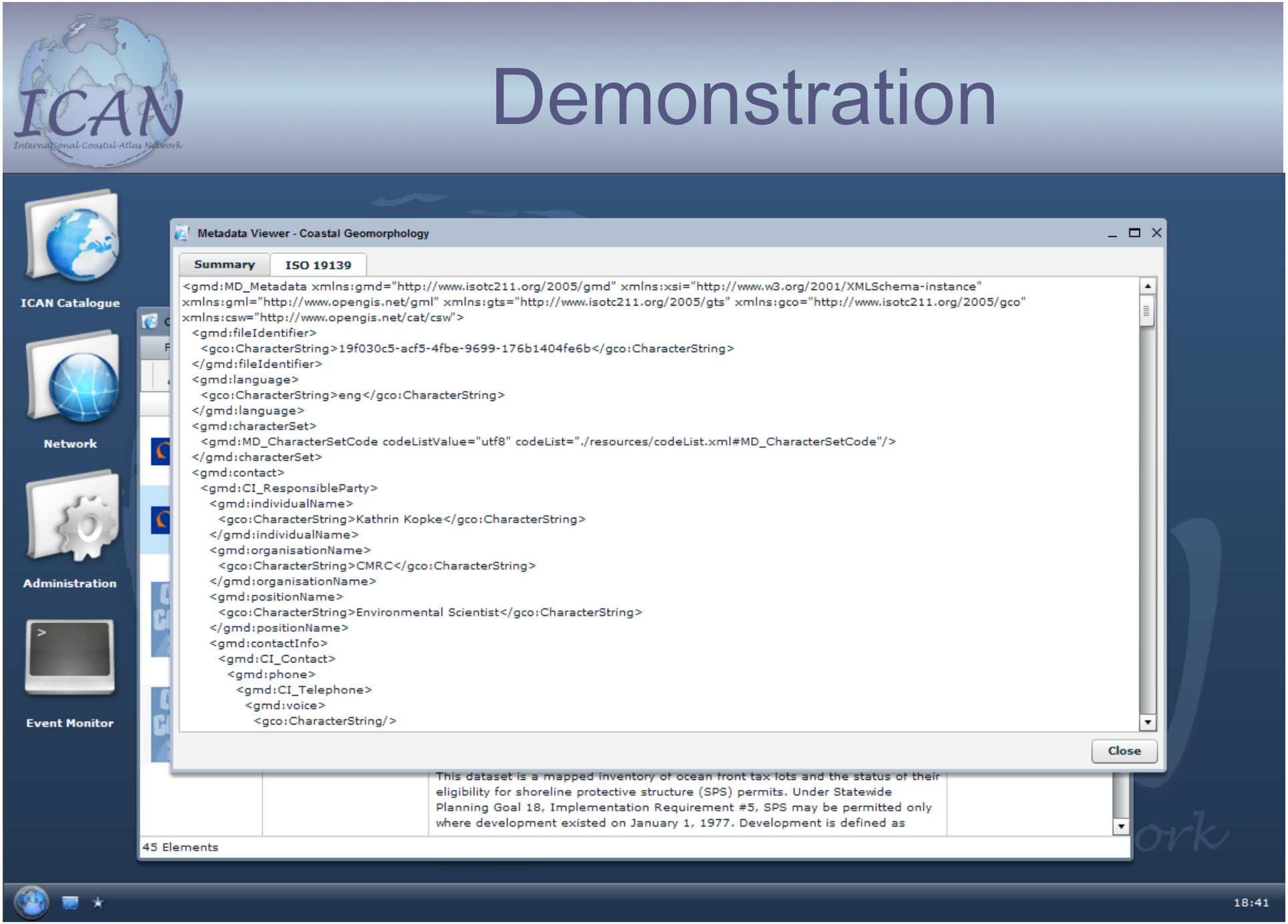

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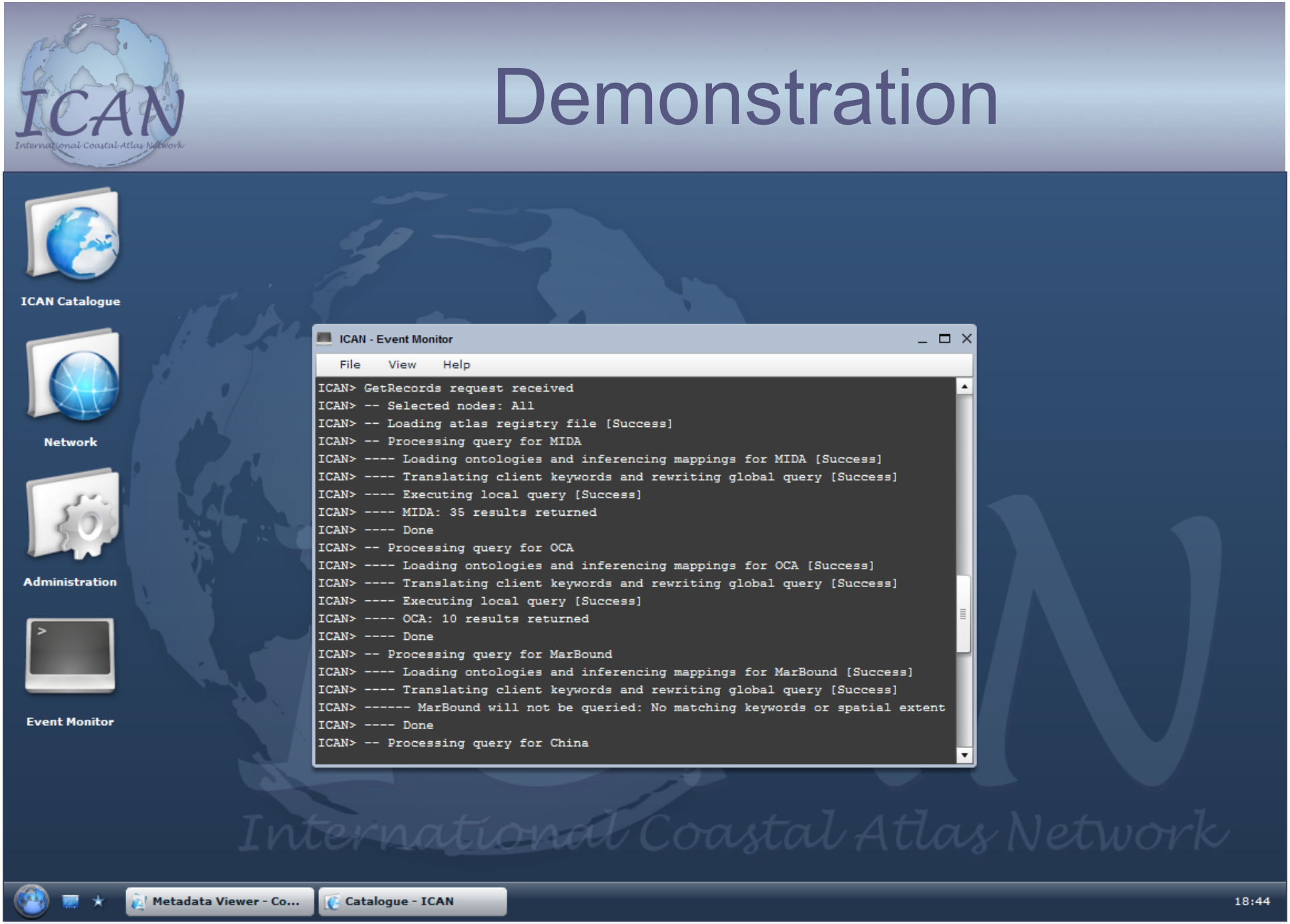

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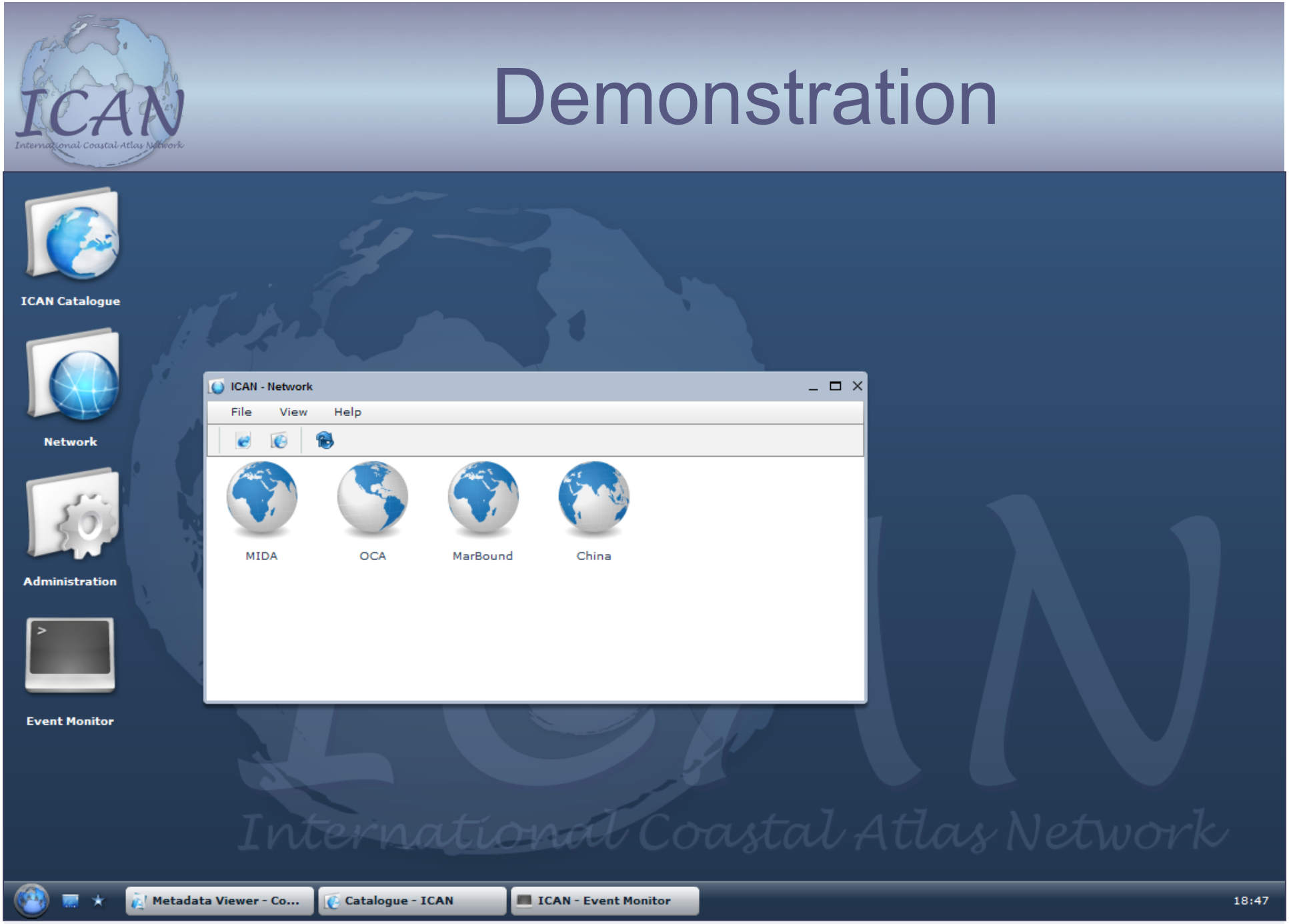

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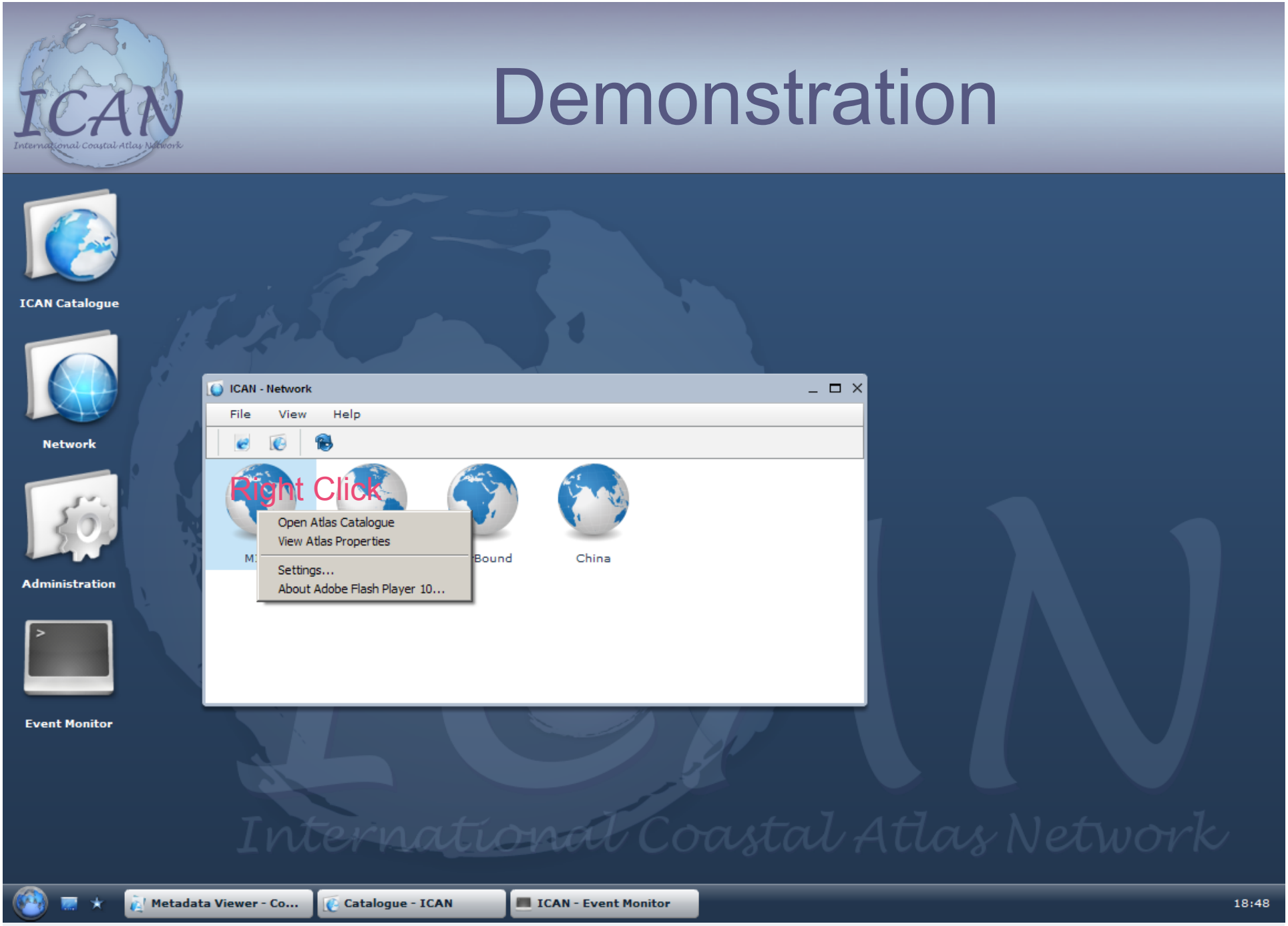

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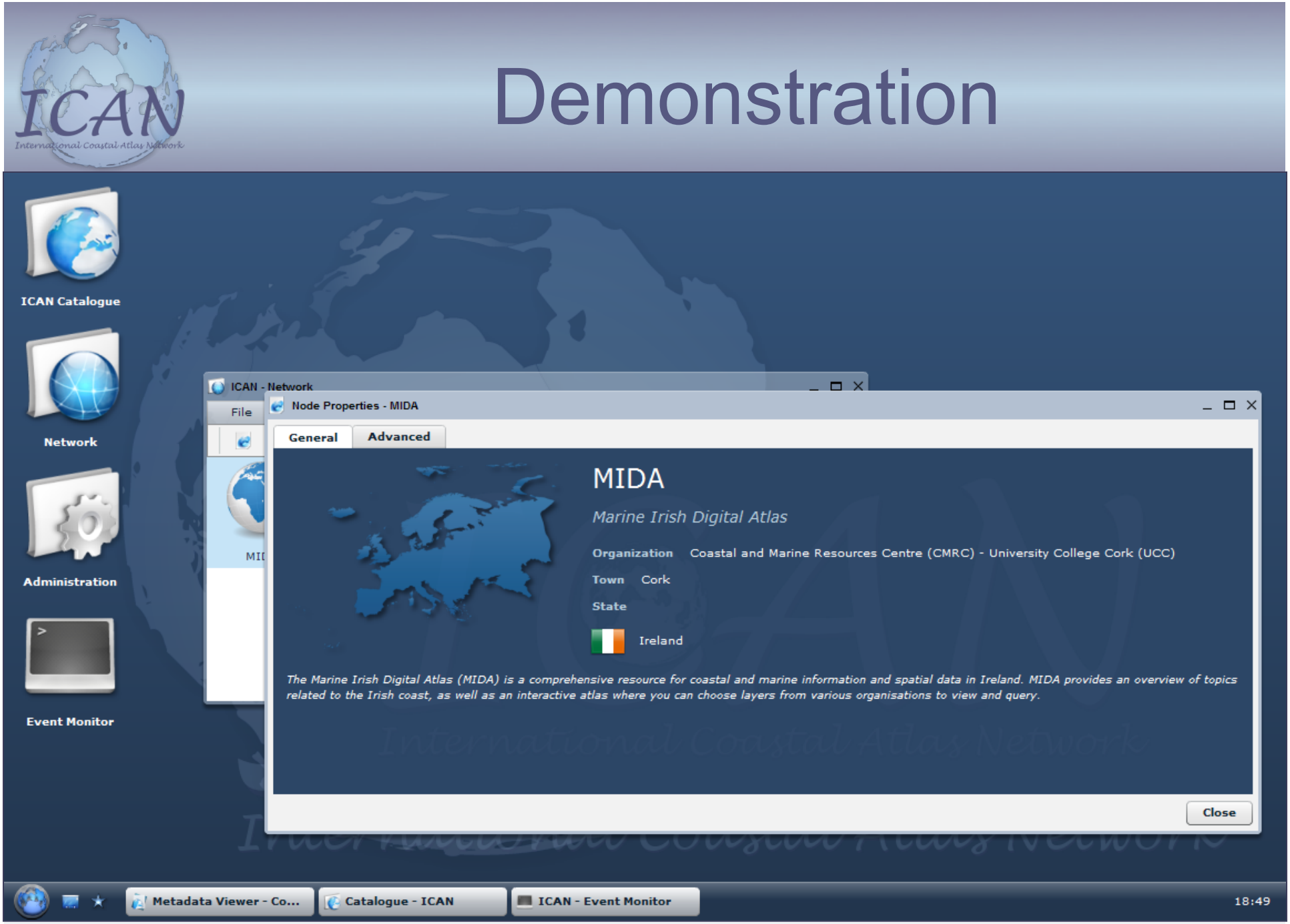

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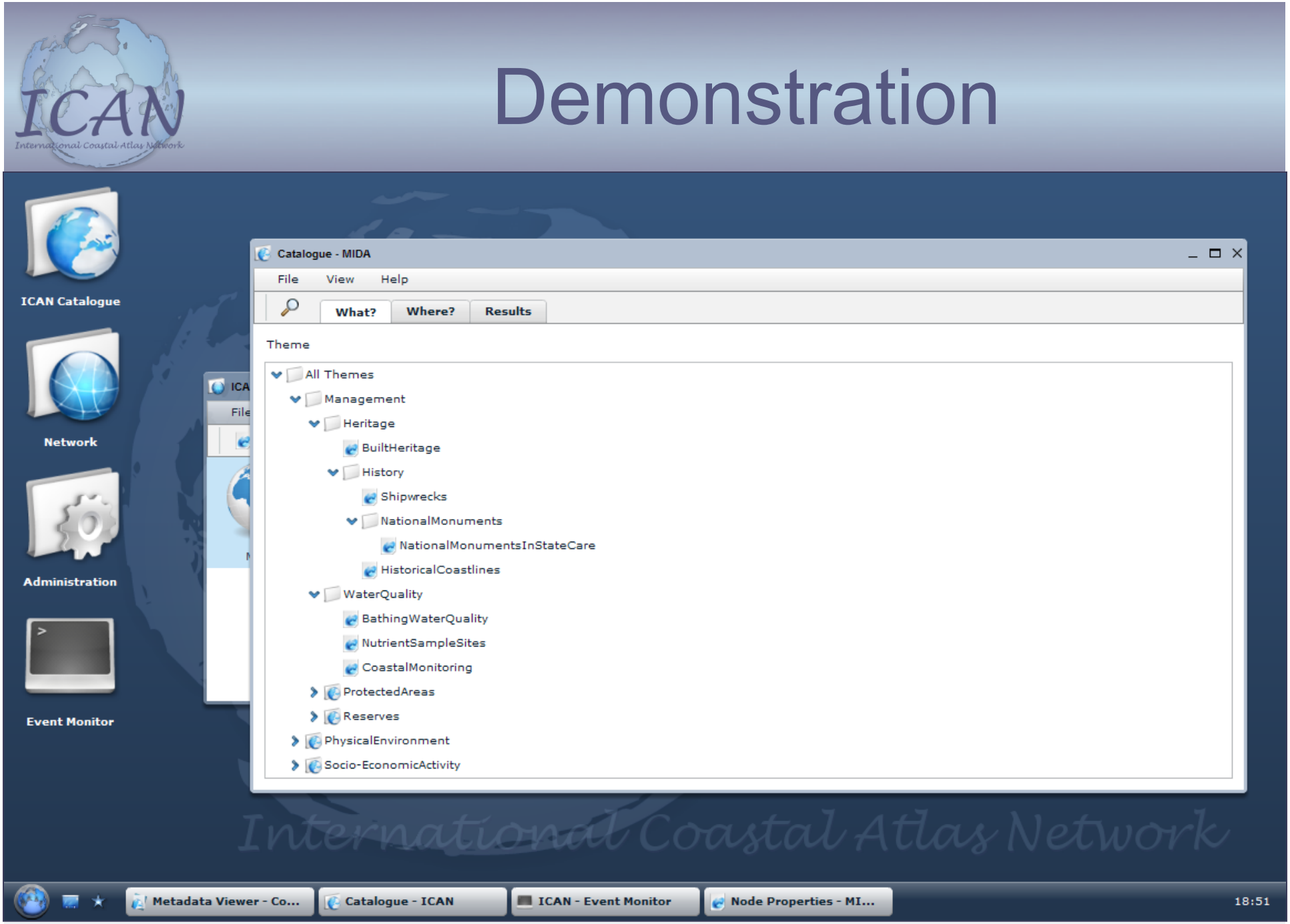

Demonstration

Demonstration

Conclusion

- Efficient solution for facilitating interoperability
- This is a first step in atlas interoperability focusing only on metadata and catalogue services
- Key future goal: Web Map Services

Thank You

http://ican.science.oregonstate.edu/ican_tech

For more technical information, please visit this web site above,

or contact:

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