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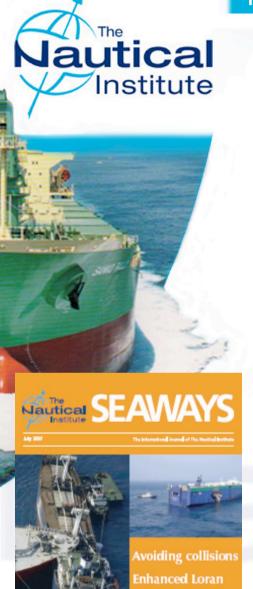


Engaging the Navigator

David J. Patraiko, FNI Director of Projects The Nautical Institute

RIN Nav08 - London October 2008





low to mentor

Why Engage?

- The navigator or OOW is predominately the sole decision maker upon whom safety of navigation relies.
- Research shows that in about 50% of collisions during the past 10 years, either one or both vessels didn't see each other until it was too late!

(Seaways July 07)

Questions

- Do we need a navigator on the Bridge?
- What is their role?

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- Do they have the tools?
- Do they have the training?
- Do they have the motivation?

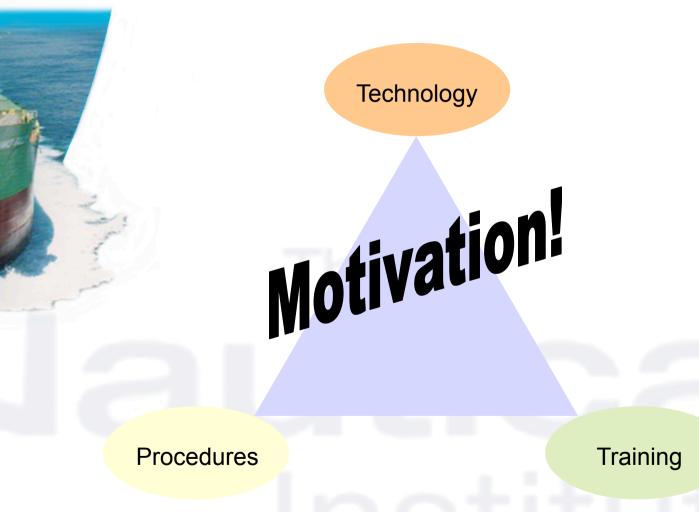
Modern Times

- Life with ECDIS, INS/IBS...
- Maintenance of situational awareness?
- Decisions for Command and Control?
- Familiarisation of Interface?
- Audit-ability?

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Engagement Triangle



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Technology

- ECDIS, Radar, Track Control, Auto Pilot, Gyro, GPS ...
- INS/IBS, Decision Support, GNSS
- Engagement Options:
 - Manufacturer interface
 - S Mode

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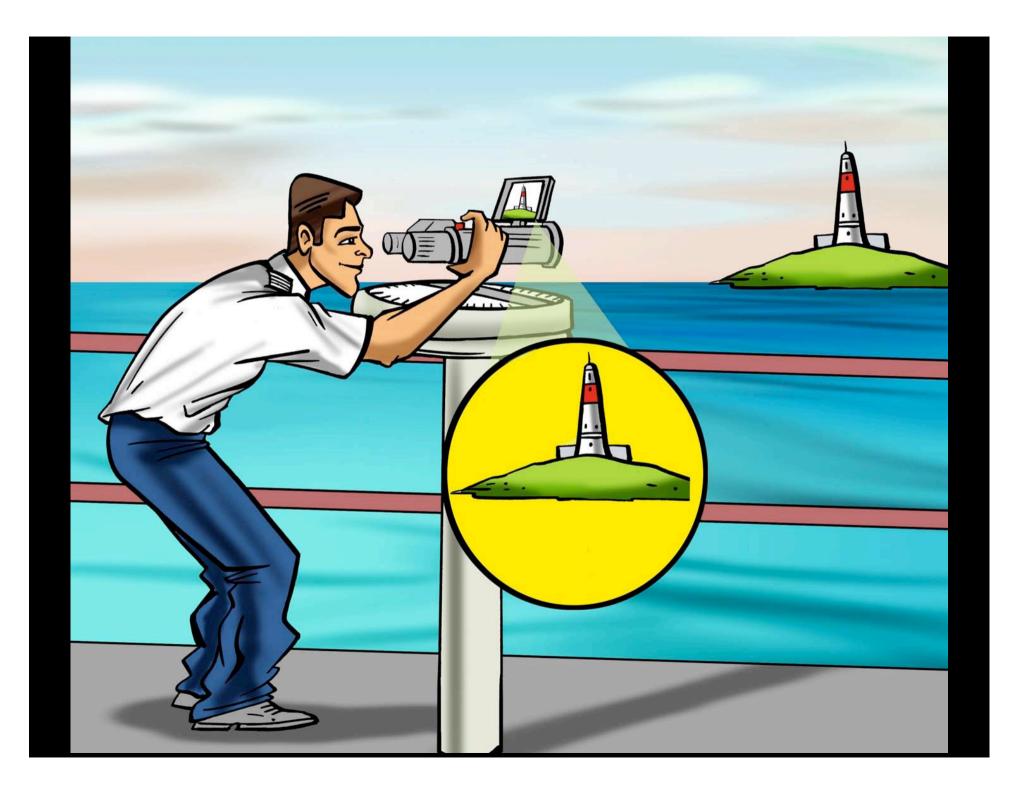
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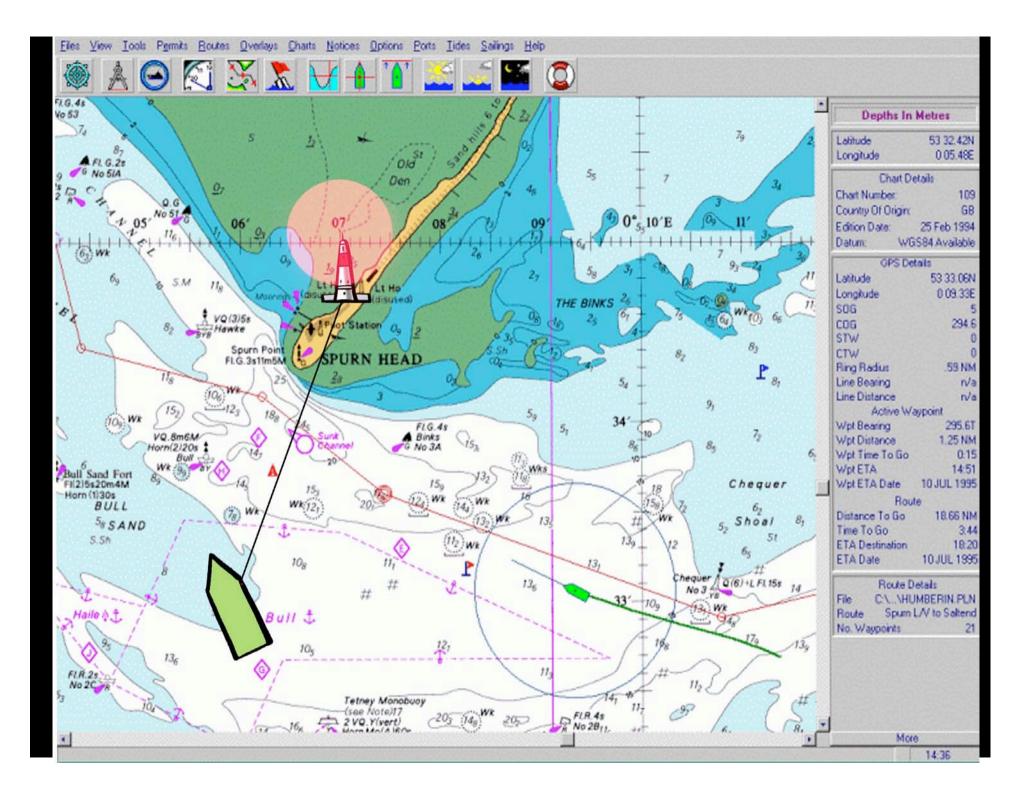
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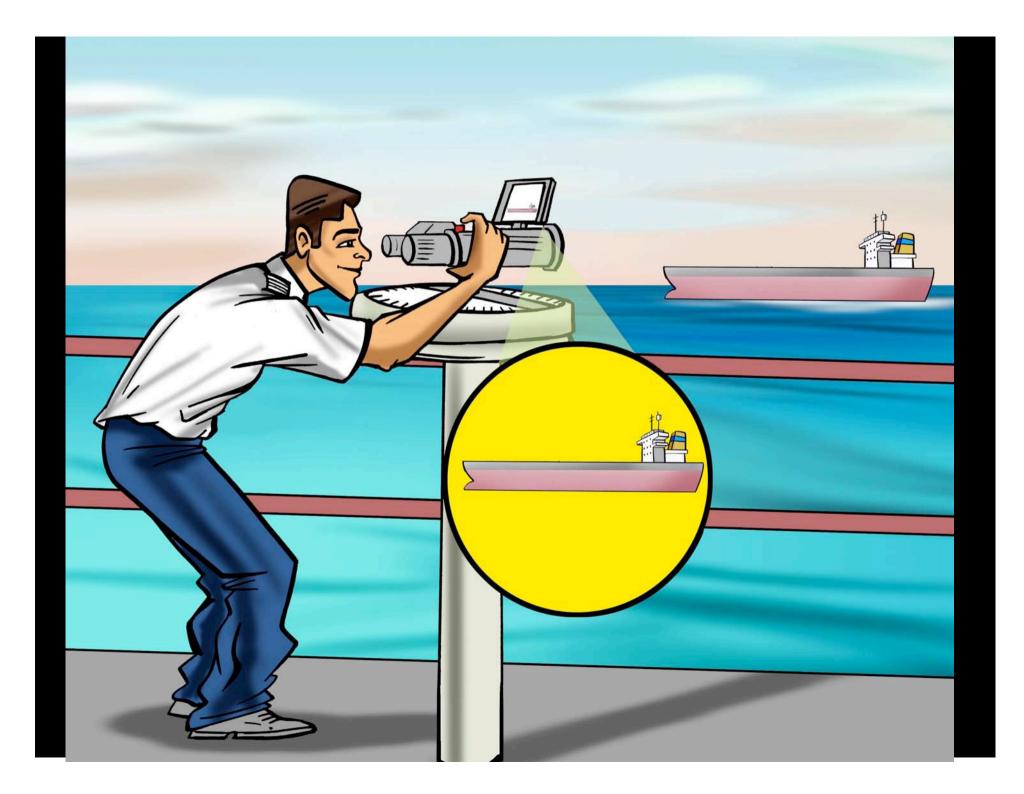


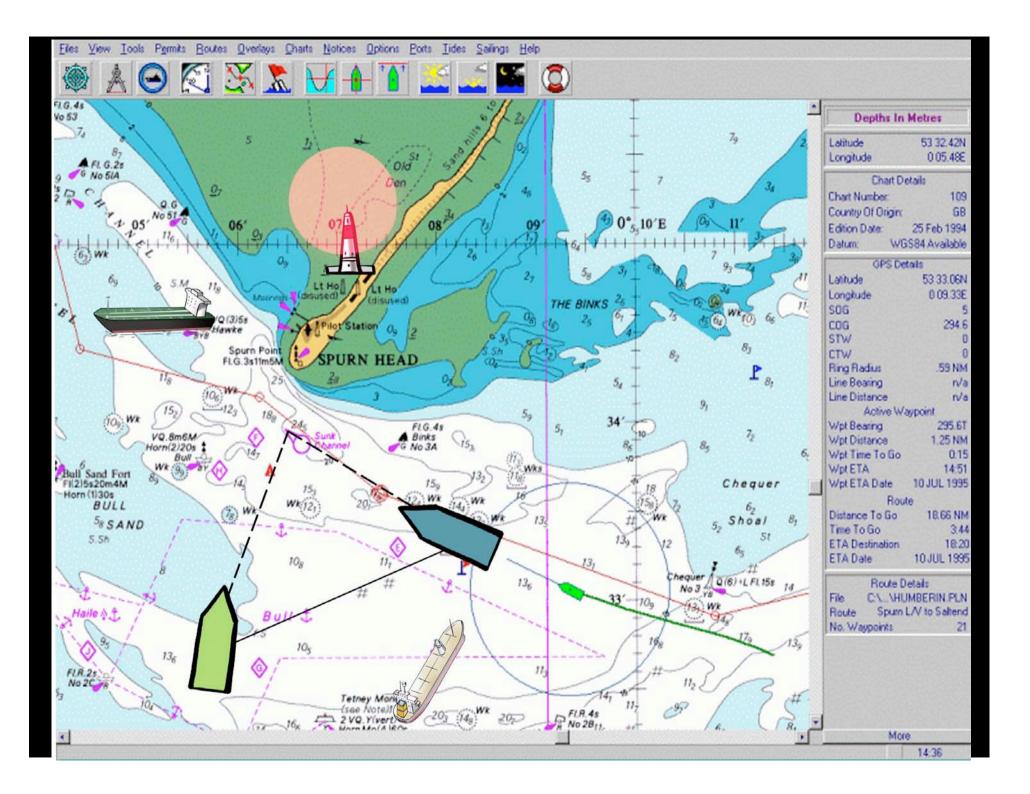
- Ability to engage the mariner
- Improve situational awareness
- Make use of the superb MK1 eyeball.
- Secondary navigation system
- Identify Risk of Collision
- Audit trail for activity

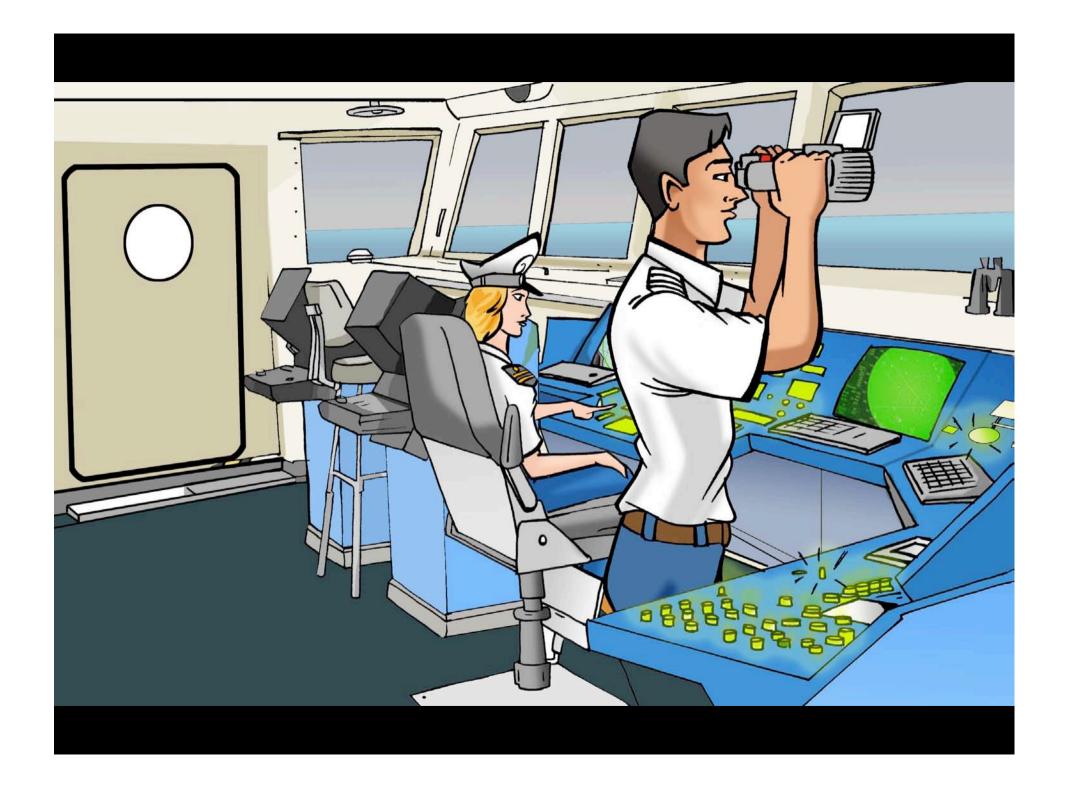
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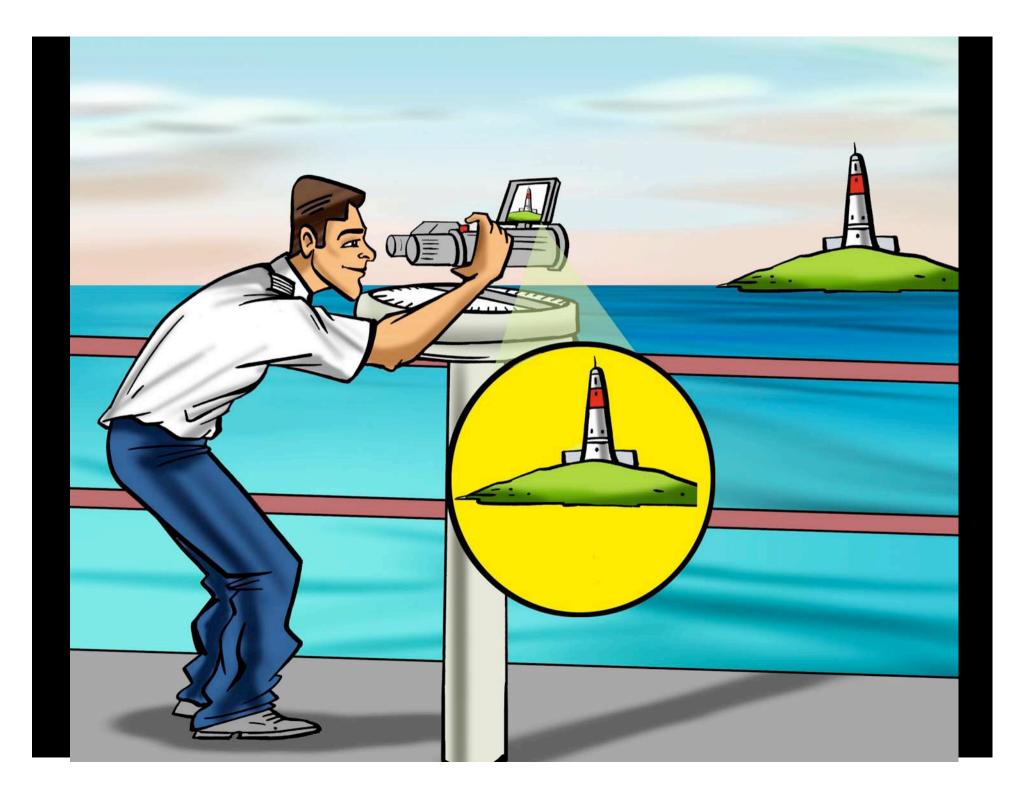




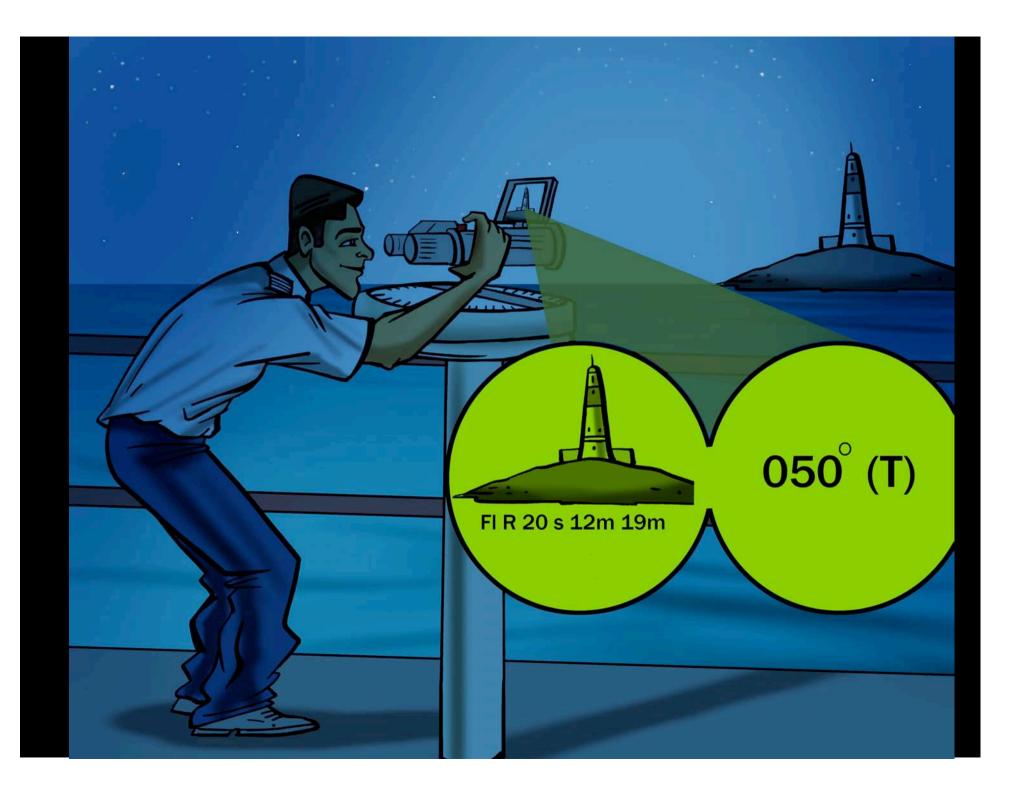














Procedures

- Tradition
- Develop 'Best Practice'
- Company procedures (ISM, TQM ...)
- Mentoring
- Sharing



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Training

- IMO Model Courses (minimum)
- Competencies

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- Assessment (Simulation)
- Refresher training
- Cascade training (3)
- Challenge of keeping pace with developments and design differences

Motivation

By threat

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- Through teamwork
- Professional ethos/pride
- Through education
- Awareness campaign

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e-Nav Issues

- IMO states that e-Nav is user led
- SG states that the mariner should not be relegated to that of a 'monitor'.
- Training must be considered at all stages of development.
- e-Navigation must be scaleable

Human Element

- Engagement starts with design
- Roles must be clear and current
- Operational engagement must address Technology, Procedures, Training and Motivation

Engagement is iterative



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Conclusion

- Important to engage the mariner
- Mariner must be able to be engaged (operations and design)
- Mariners must be motivated to engage.
- e-Navigation should address this
- Scalability requires wide range of stakeholders and tools.
- Role for RIN and NI

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Engagement with The Nautical Institute through membership and participation is very much appreciated!

Thank You

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