IALA RISK MANAGEMENT TOOLBOX - CURRENT PROVISION AND POTENTIAL DEVELOPMENT

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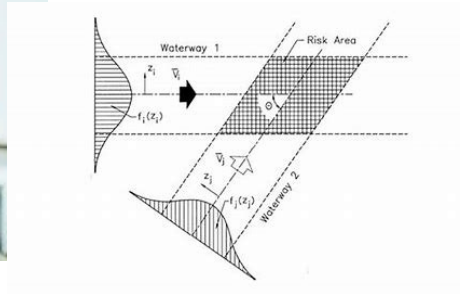
The IALA Risk Management Toolbox

- What is it?
- Why does it exist?
- How was it developed?
- What tools does it contain?
- What future development of the toolbox do IALA anticipate and/or require?

What is the IALA Risk Management Toolbox?

- Group of quantitative and qualitative methods



- Reflect a range of user risk management maturity

- Developed collaboratively – IALA committees and World-Wide Academy

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AtoN Requirements and Management (ARM)

- WG 1 Navigational Requirements
- WG 2 Information Services and Portrayal
- WG 3 Risk management

Engineering and Sustainability (ENG)

- WG 1 Light and vision physics
- WG 2 Technical knowledge and sustainability
- WG 3 Radionavigation services
- WG 4 Heritage and culture

Digital technologies (DTEC)*

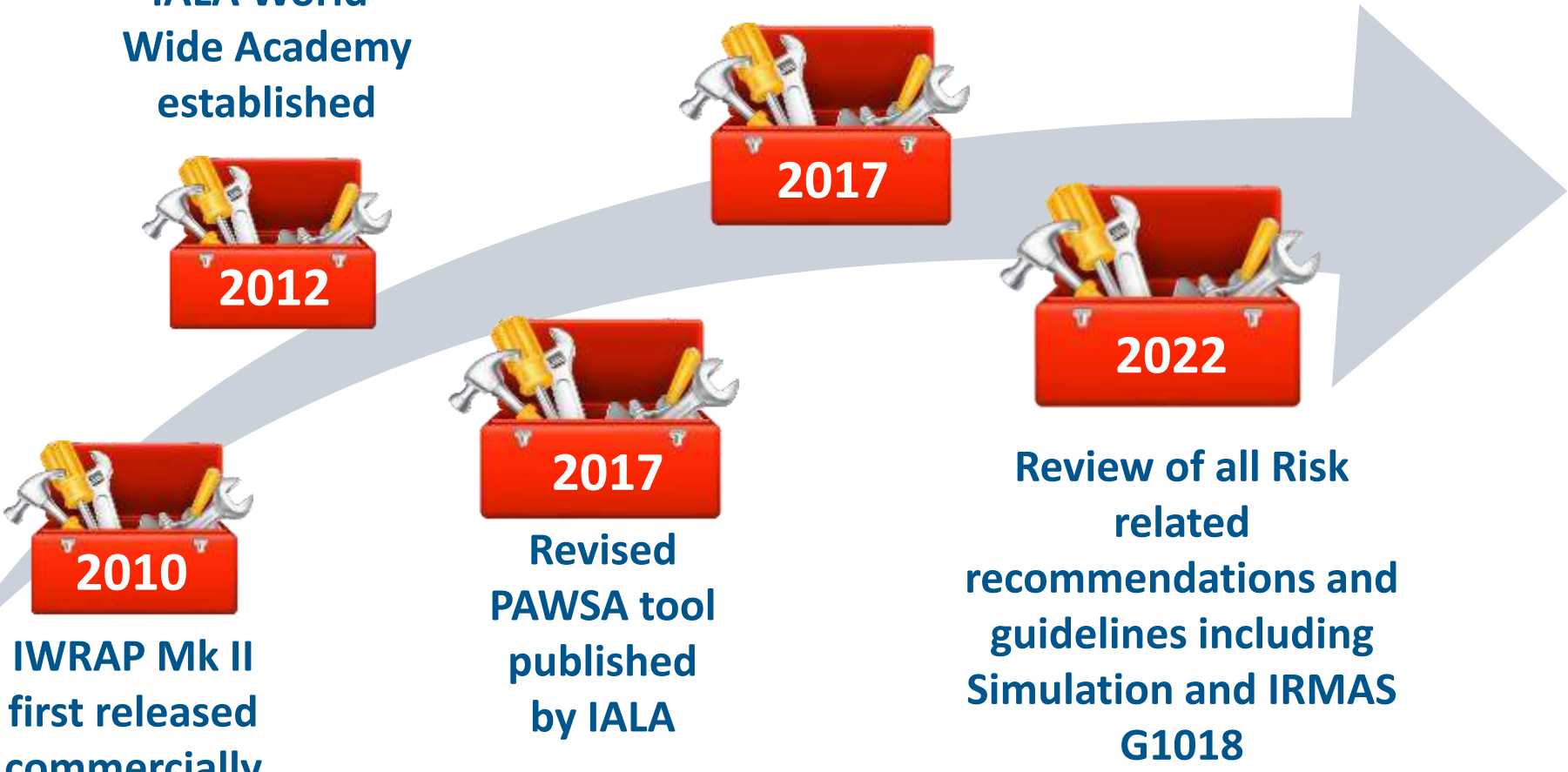
- WG 1 Digital information system
- WG 2 Emerging digital technology
- WG 3 Digital communication system

Vessel Traffic Services (VTS)

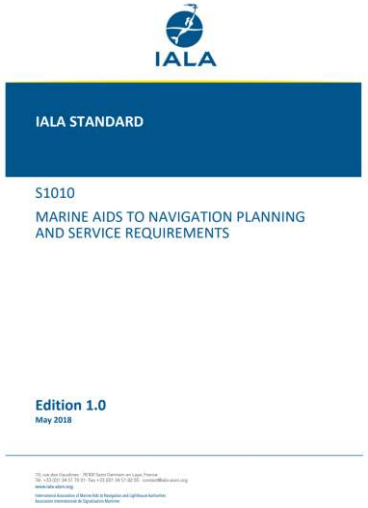
- WG 1 Operations
- WG 2 Technology
- WG 3 VTS Training

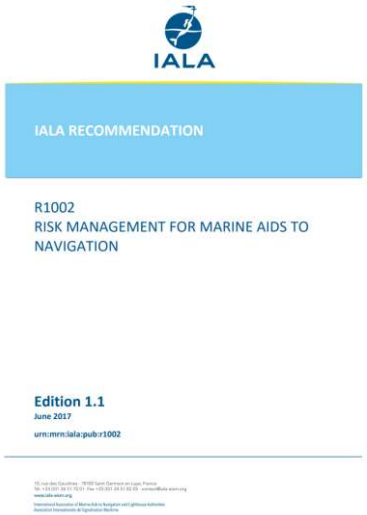
Toolbox purposes

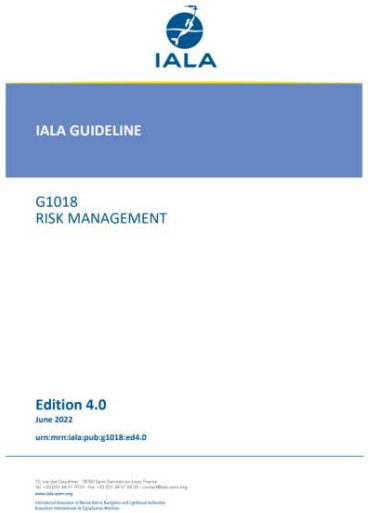
Toolbox development milestones



Hierarchy of IALA Risk Related documentation







Standard S1010

Identifies the recommendations and guidelines covering Marine Aids to Navigation planning and service requirements (including R1002)

Recommendation R1002

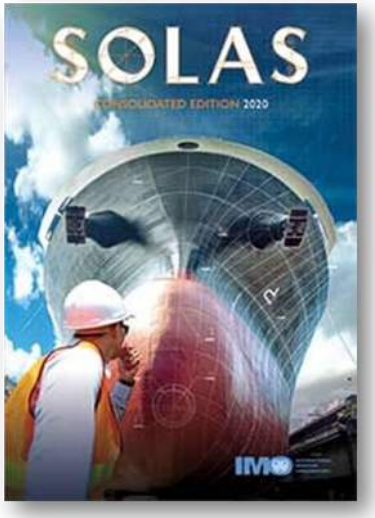
Recommends using the risk management and IALA risk management tools (including G1018)

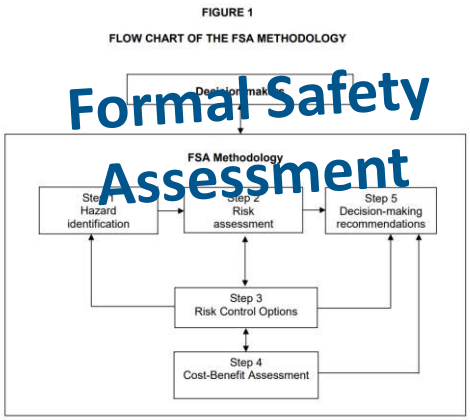
Guideline G1018

Risk Management

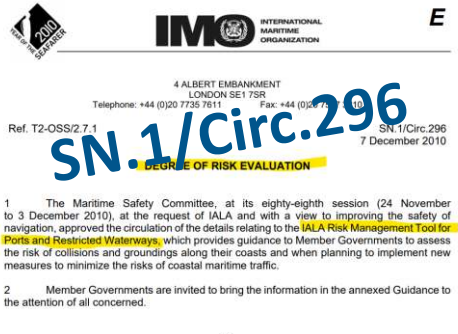
https://www.iala-aism.org/guidance-publications/

External influences into IALA Guideline G1018

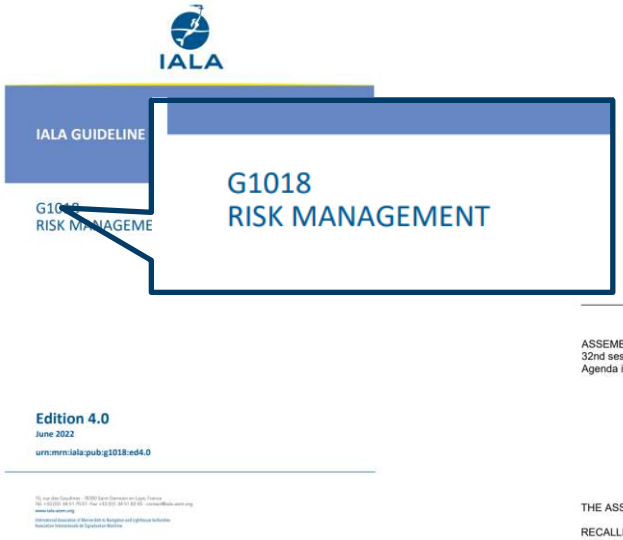


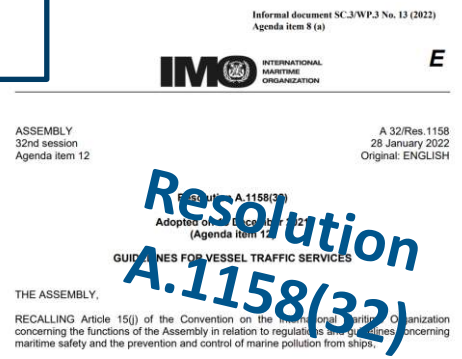


Formal Safety Assessment



SN.1/Circ.296





Resolution A.1158(32)

Current toolbox tools

IRMAS including OPRA

One Page Risk Assessment included in G1018

SIRA

Simplified IALA Risk Assessment
G1138

PAWSA

Ports and Waterways Safety Assessment G1024

IWRAP

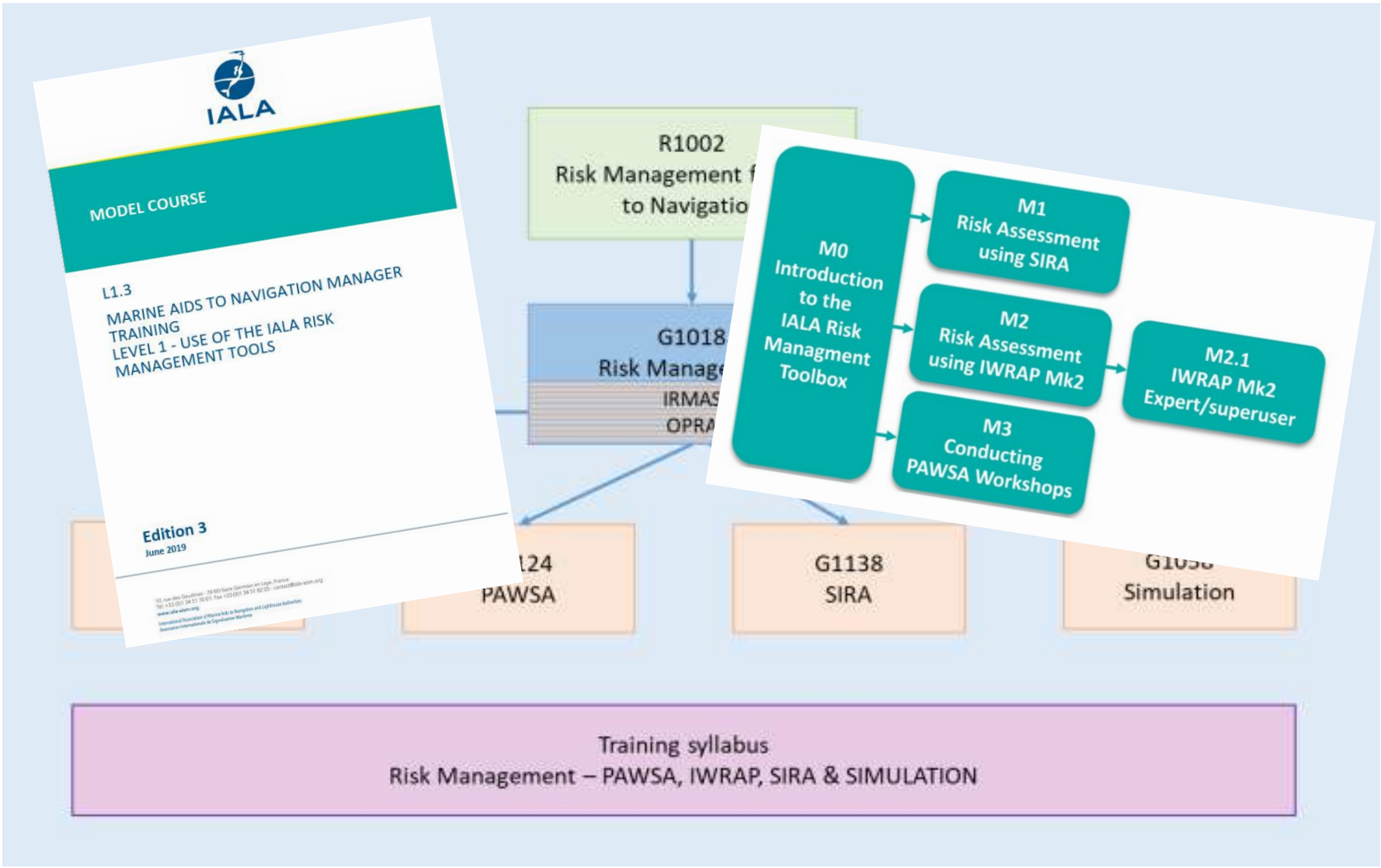
IALA Waterway Risk Assessment Programme G1023

Simulation

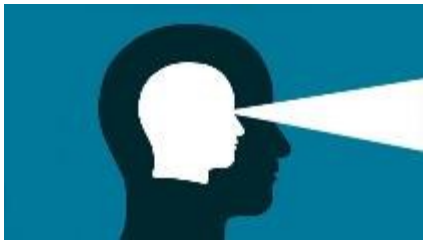
Summarized in G1058

Risk = Probability or Likelihood X Consequence

Risk Guidelines and Model Courses



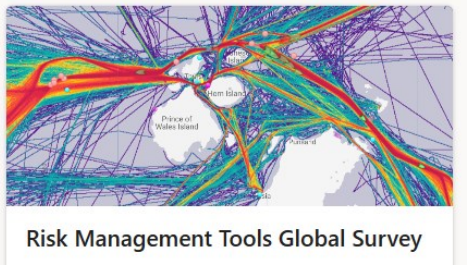
https://academy.iala-aism.org/wwa/training/course-schedules/



Future risk management toolbox developments and requirements….

- Continue to refine existing tools

- Causation factors

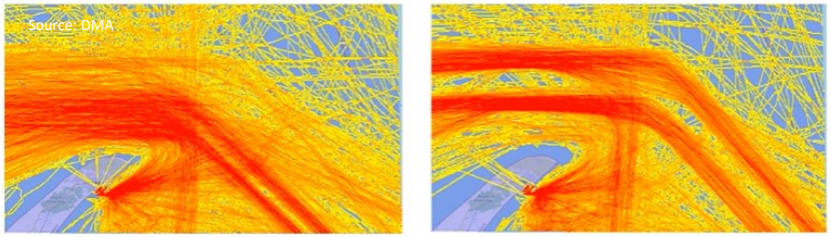


- Sector and comparable industry tools in use

- Developing ideas of what is risk?

Future risk management toolbox developments and requirements..

- How to identify optimal risk control options



- Collection of data based effectiveness evidence

- Discrete dynamic scenario modelling

- Maintain user focus

Thank you for listening

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