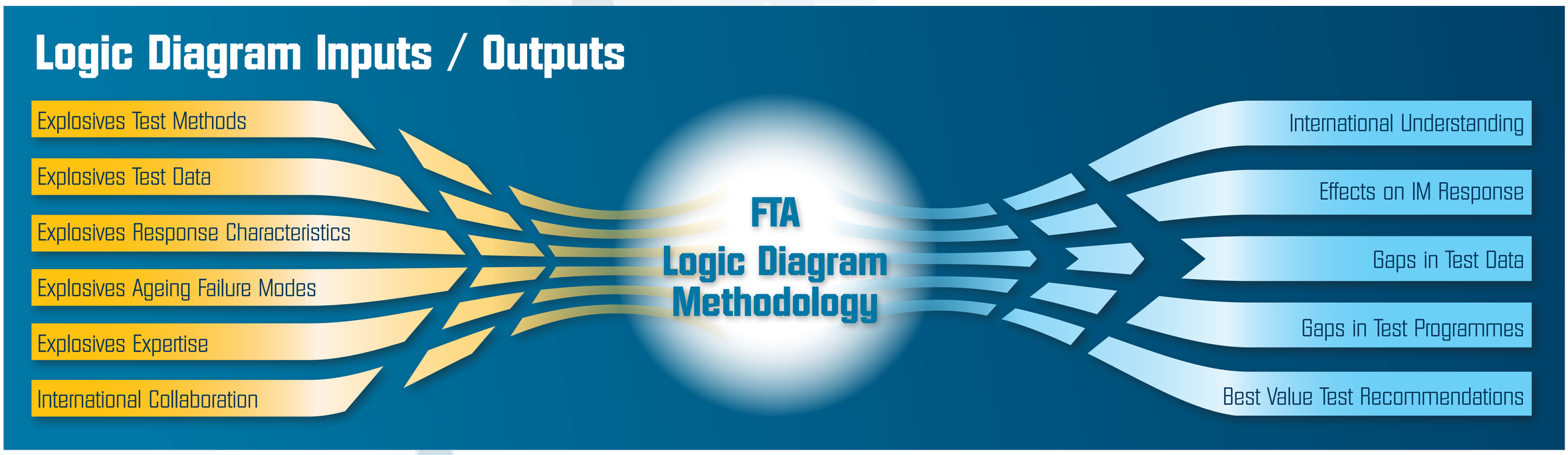
Effects of Ageing on IM response

EXPERT IMEMG WORKING GROUP

Group's goals:

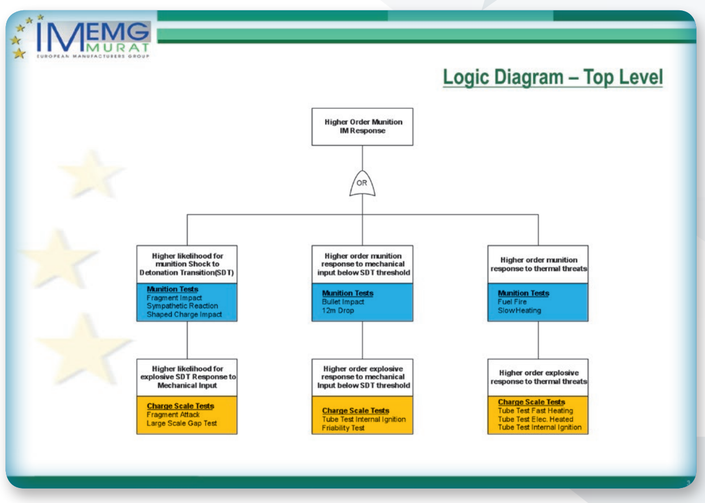
- ✔ To analyse the effects of the ageing of explosive materials
- ✔ To establish the links between material test results and the IM characteristics of explosive materials
- ✔ To review available test results on aged materials to assess the current body of evidence regarding the effects of explosives ageing on munition IM response

Methodology for Assessing the Effects of Explosives Ageing on Munition IM Response – FTA Logic Diagram



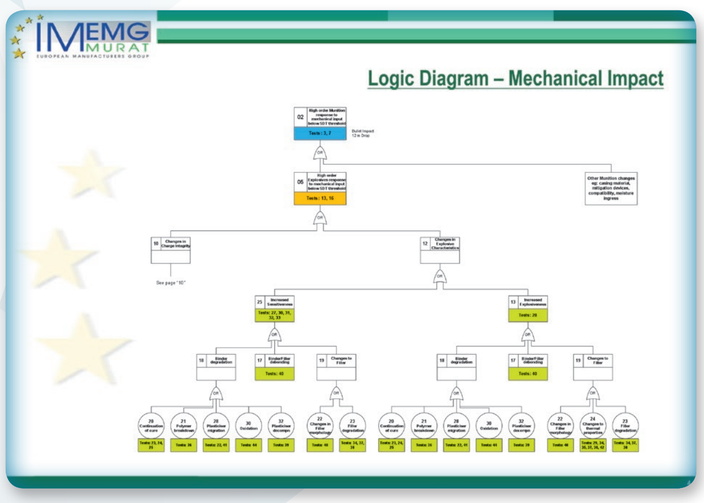
Top Level

The top event of a higher order munition response to an IM stimulus is sub-divided into a number of explosive response mechanisms, and appropriate tests identified



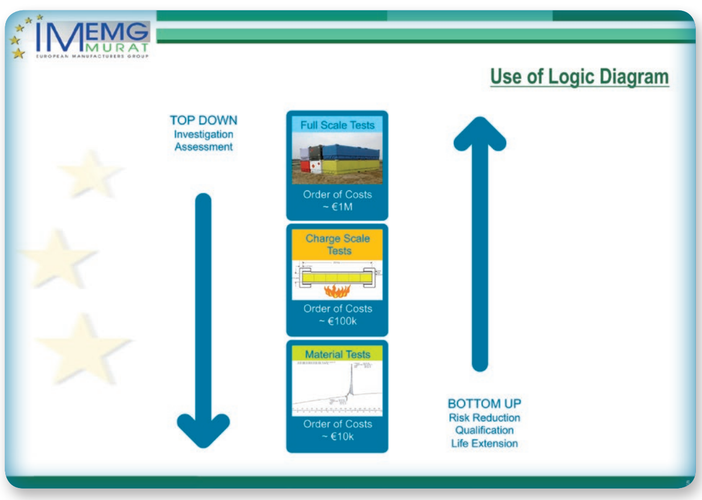
Mechanical Impact

Logic diagram in FTA format Illustrates links between material properties and IM response,
and provides framework for assessing test data and sharing expertise.



Use of Logic Diagram

Can be employed for purposes of characterisation or investigation, and can optimise the use of small scale test data



- **Logic Diagram illustrates the links between munition IM response, material degradation mechanisms and tests.**
- **Methodology can be used to assess the effectiveness of test programmes and identify gaps in test data**
- **Methodology used promotes a greater understanding of international test data and provides a framework for sharing expertise.**

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IMEMG MURAT EUROPEAN MANUFACTURERS GROUP