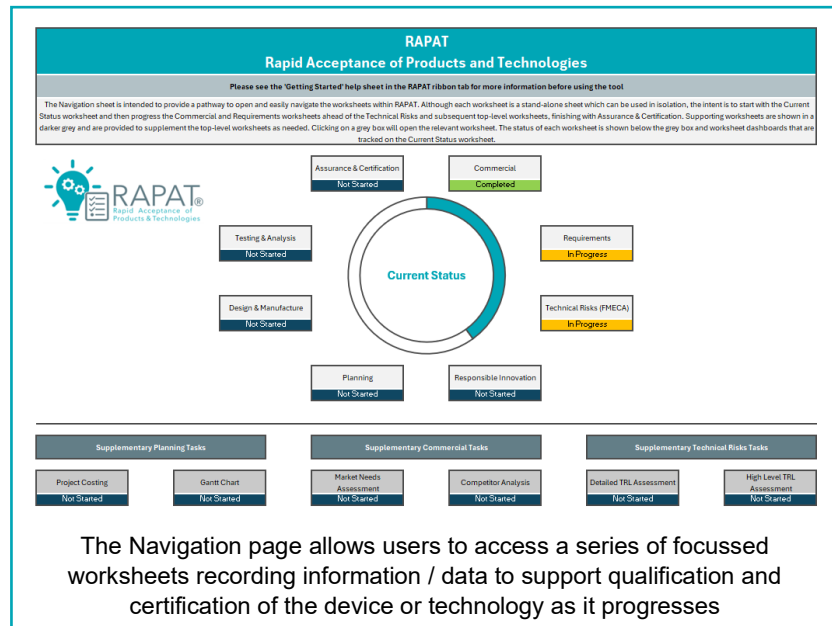


RAPAT is an easy-to-use Excel-based tool created to help innovators and technology developers achieve successful product acceptance and deployment. More information on RAPAT is available at: <http://www.astrimar.com/RAPAT>. The tool helps users to:

- Define technology and user requirements
- Understand and manage commercial and technical risks
- Plan required testing and assurance activities
- Prepare funding applications, including market appraisals, TRL assessment and cost estimates
- Align with responsible innovation expectations
- Document fulfilment of requirements to facilitate product acceptance / certification



It facilitates an efficient risk-based approach from concept development to identification and collation of appropriate assurance evidence to demonstrate the extent to which a product will meet both user and regulatory requirements.

The tool is also able to support acceptance / procurement authorities reviewing the submitted evidence of the product's fitness for purpose and certification when required.

Key Features:

- Supports any technology
- Cloud-based for real-time collaboration
- Online & desktop Excel compatible
- A range of risk assessments
- Links to regulations, codes, and standards
- Customisable assessments & output
- Help sheets & tutorials
- Progress and tracking dashboards
- Windows & Mac compatible

RAPAT's recent development as a cloud-based product leads to:

- A simpler assessment process, allowing for real-time communication and collaboration
- Immediate access to software updates, improving functionality and user experience
- Flexibility for project personalisation – adapt RAPAT to the needs of the project

User Testimonial:

"RAPAT gives developers a much better understanding of what is required for product acceptance. It drives them to think about user requirements alongside commercial and technical risks ensuring these are understood and addressed from the outset. The tool enables best practice, improving capability and efficiency in the UK supply chain."

For more information contact: RAPAT@astrimar.com or use the QR code

~~ Please see RAPAT examples overleaf ~~





High Level TRL Assessment

TRLs 1 – 9 each assessed against 5 detailed contributing elements to simplify quantifying and justifying TRLs

High Level TRL Assessment									
TRL	TRL1	TRL2	TRL3	TRL4	TRL5	TRL6	TRL7	TRL8	TRL9
Completion Status	Completed	Completed	In Progress	In Progress	In Progress	In Progress	Not Started	Not Started	Not Started
3 Completed/In-Progress TRLs	3/3	3/3	3/3	3/3	3/3	3/3	3/3	3/3	3/3
No. Not Started	0	0	1	2	2	0	0	0	0
No. In Progress	0	0	2	2	1	1	0	0	0
No. Completed	3	3	2	2	0	0	0	0	0

Real-time updating dashboard for a quick 'at-a-glance' overview of TRL statuses

TRL Focus	TRL Description	Completion Status	Completion Status	Completion Status	Completion Status	Completion Status	Completion Status	Completion Status	Completion Status	Completion Status	Completion Status	Completion Status	Completion Status	Completion Status	Completion Status	Completion Status	Completion Status	Completion Status	Completion Status	Completion Status	
Basic Research	Research activities with sufficient support identification, observation and reporting of basic scientific requirements/principles. Examples might include exploratory studies of a technology's basic properties. Multiple and iterative research is required.	Completed	Completed	Completed	Completed	Completed	Completed	Completed	Completed	Completed	Completed	Completed	Completed	Completed	Completed	Completed	Completed	Completed	Completed	Completed	Completed
Concept Formulation	Basic research has been completed and results reported. The basic principles are defined. The technology concept and/or application is formulated. Multiple and iterative research is required.	Completed	Completed	Completed	Completed	Completed	Completed	Completed	Completed	Completed	Completed	Completed	Completed	Completed	Completed	Completed	Completed	Completed	Completed	Completed	Completed
Concept Development	Concept formulation has been completed and results reported. The technology concept and/or application is defined. This includes an initial analysis and evaluation of the concept. Multiple and iterative research is required.	Completed	Completed	Completed	Completed	Completed	Completed	Completed	Completed	Completed	Completed	Completed	Completed	Completed	Completed	Completed	Completed	Completed	Completed	Completed	Completed
Concept Demonstration	Concept development has been completed and results reported. The technology concept and/or application is defined. This includes an initial analysis and evaluation of the concept. Multiple and iterative research is required. Physical models (including laboratory and field tests) are used to demonstrate the concept. Multiple and iterative research is required.	Completed	Completed	Completed	Completed	Completed	Completed	Completed	Completed	Completed	Completed	Completed	Completed	Completed	Completed	Completed	Completed	Completed	Completed	Completed	Completed

Individual completion status for each contributing element, for a detailed progress overview

FMECA (Failure Mode, Effects and Criticality Analysis)

Completely customisable risk matrix to evaluate your technology's risks using the most relevant terminology

Likelihood	Consequence Severity	Risk Category	Impact Severity					
			Negligible	Noticeable	Significant	Major	Catastrophic	
Occurs more frequently than every few weeks	Greater than or equal to 1 in 10 uses	Frequent	Yellow	Red	Red	Red	Red	Red
Occurs every few months	Greater than or equal to 1 in 100 but less than 1 in 10 uses	Probable	Yellow	Red	Red	Red	Red	Red
Occurs less than once a year	Greater than or equal to 1 in 1000 but less than 1 in 100 uses	Occasional	Yellow	Red	Red	Red	Red	Red
Occurs less than once every several years	Greater than or equal to 1 in 10,000 but less than 1 in 1000 uses	Remote	Yellow	Red	Red	Red	Red	Red
Not expected to occur	Less than 1 in 10,000 uses	Unlikely	Yellow	Red	Red	Red	Red	Red

Likelihood	Consequence Severity	Mitigated Consequence Severity	Mitigated Likelihood	Mitigated Consequence Severity	Mitigated Risk Criticality	Completion Status
Occasional	Significant	Negligible	Unlikely	Negligible	Very Low	Completed
Remote	Negligible	Negligible	Remote	Negligible	Very Low	No Action Required
Frequent	Noticeable	Noticeable	Remote	Noticeable	TBC	In Progress

Dropdowns for users to select likelihood and severity levels, automatically evaluating risk criticality level – populated from user-defined likelihoods and severities in risk matrix

Changes to risk matrix will be retrospectively reflected in risks evaluation table – no pressure to define likelihoods, severities & criticalities before beginning FMECA

Colour-coding to indicate mitigated risk criticality and risk evaluation completion status