

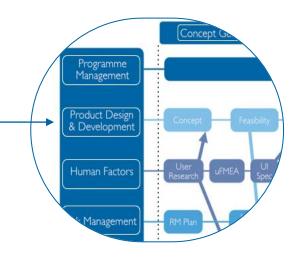
Product Design & Development Plan – Interactive Guide

## How to Use This Document

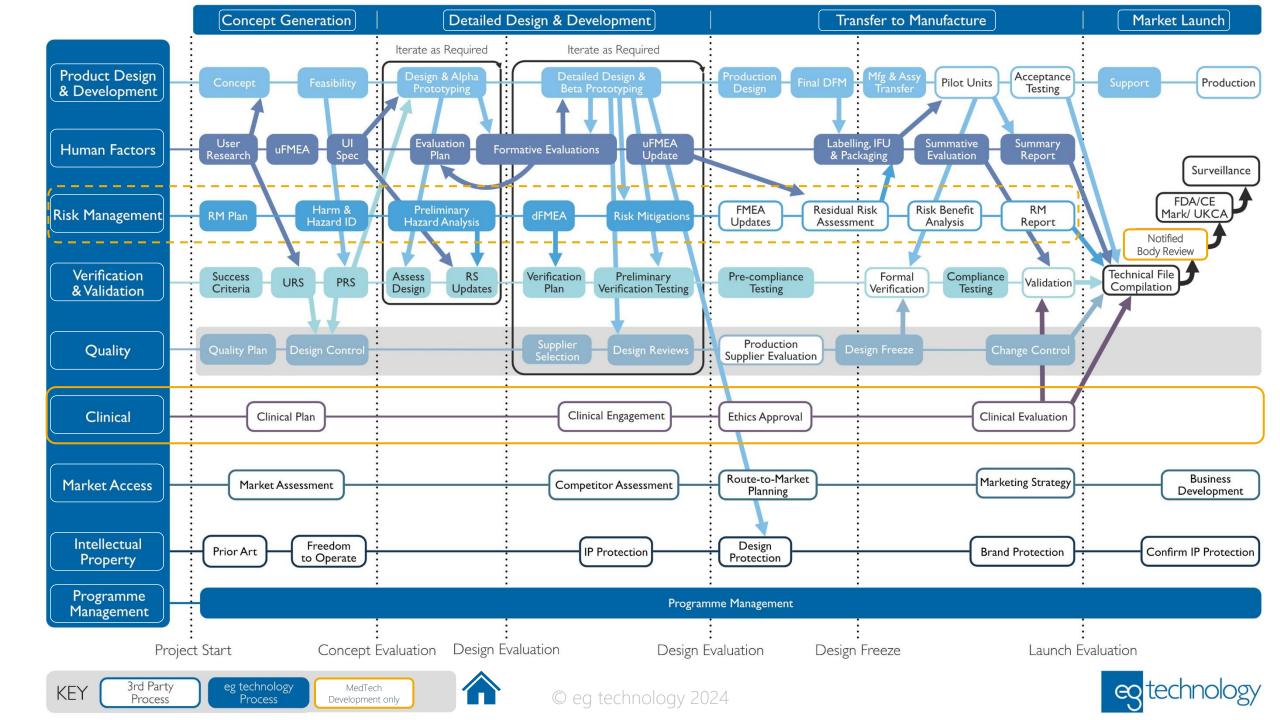
- The diagram on the following pages shows the key stages (along the top), and key processes (down the left-hand side) involved with a typical product design project. Any MedTech specific steps/streams have been highlighted in yellow.
- The arrows represent the interactions between the various processes
- Click on the **white heading boxes** to find out more about each process
- Press  $\widehat{}$  at the bottom of the page to return to the full process diagram
- Diagram Key
  - Colour fill boxes: services offered by 'eg technology'
  - White boxes: services to be provided externally eg can recommend 3<sup>rd</sup> parties if requested
  - Outlined yellow boxes MedTech specific programme requirements

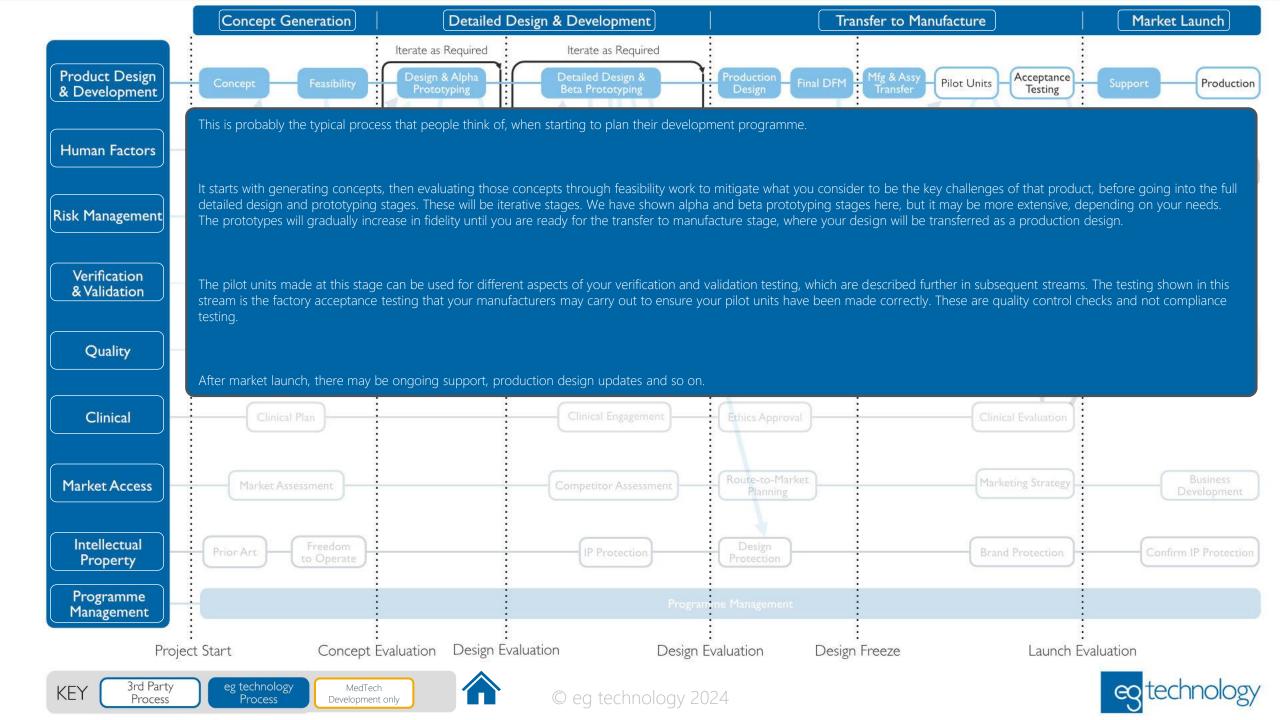
Please note this document is intended to be used as a framework only, and each project should be individually tailored and adapted.

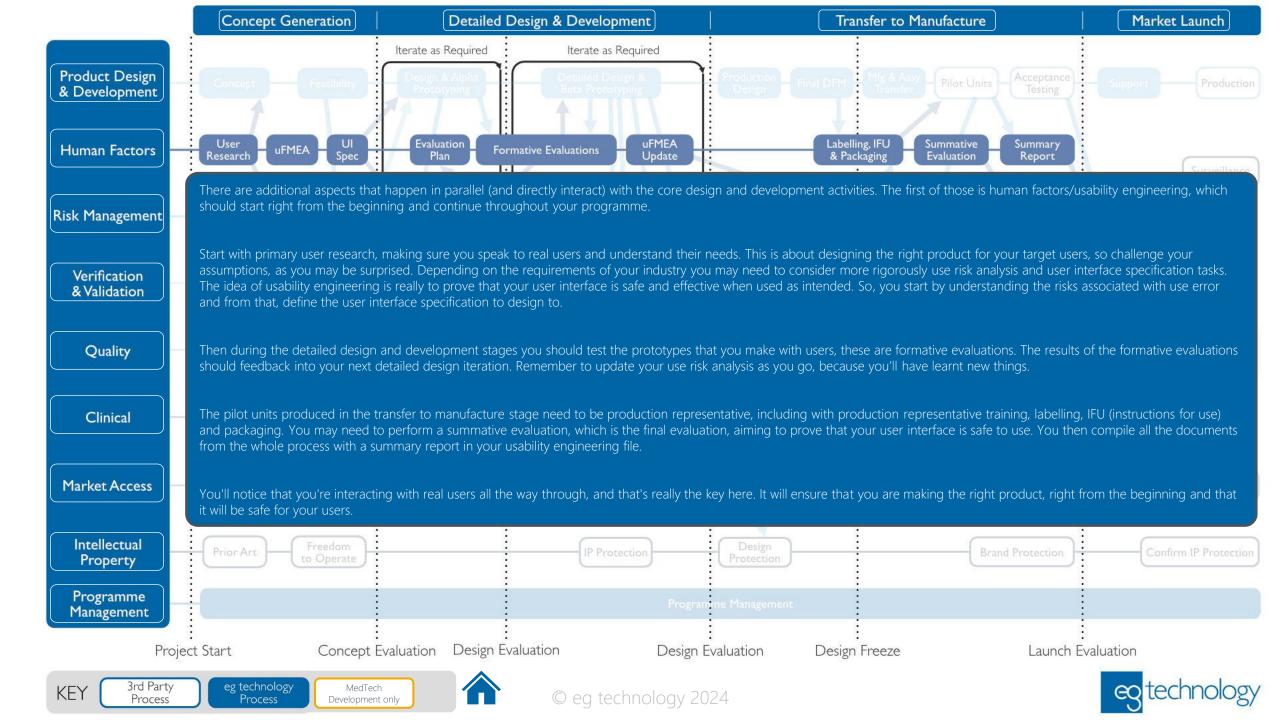
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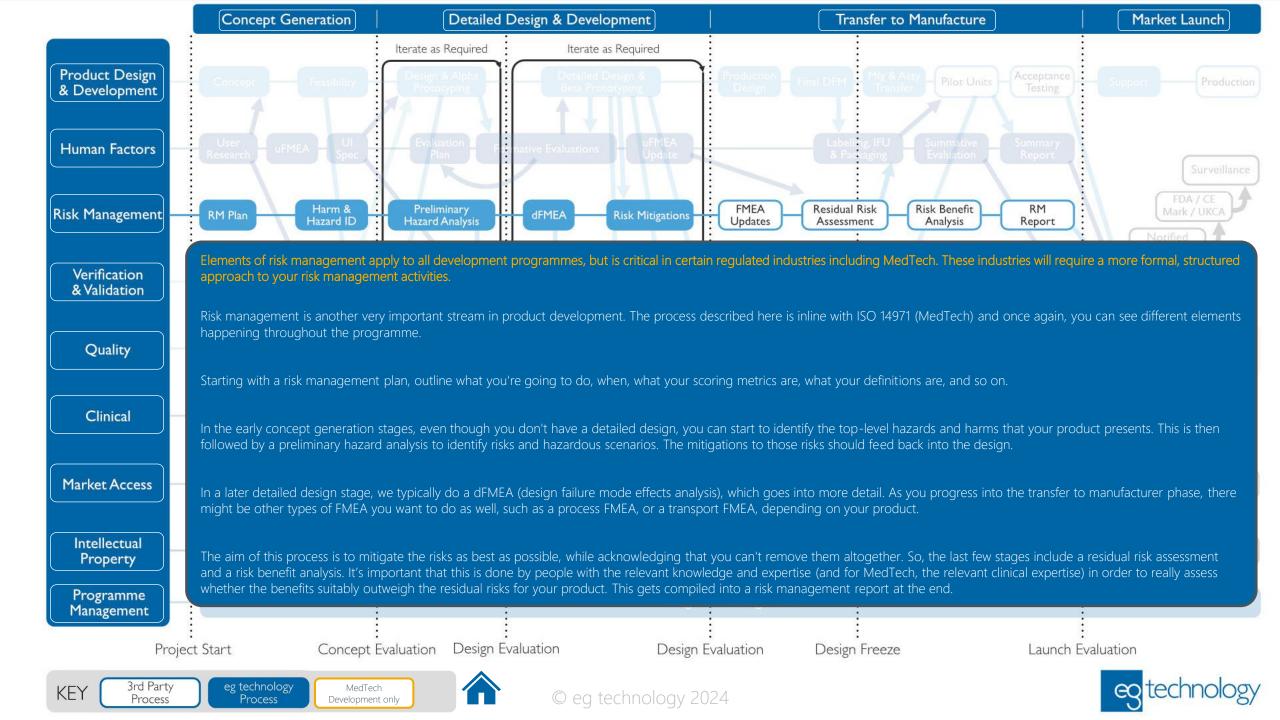




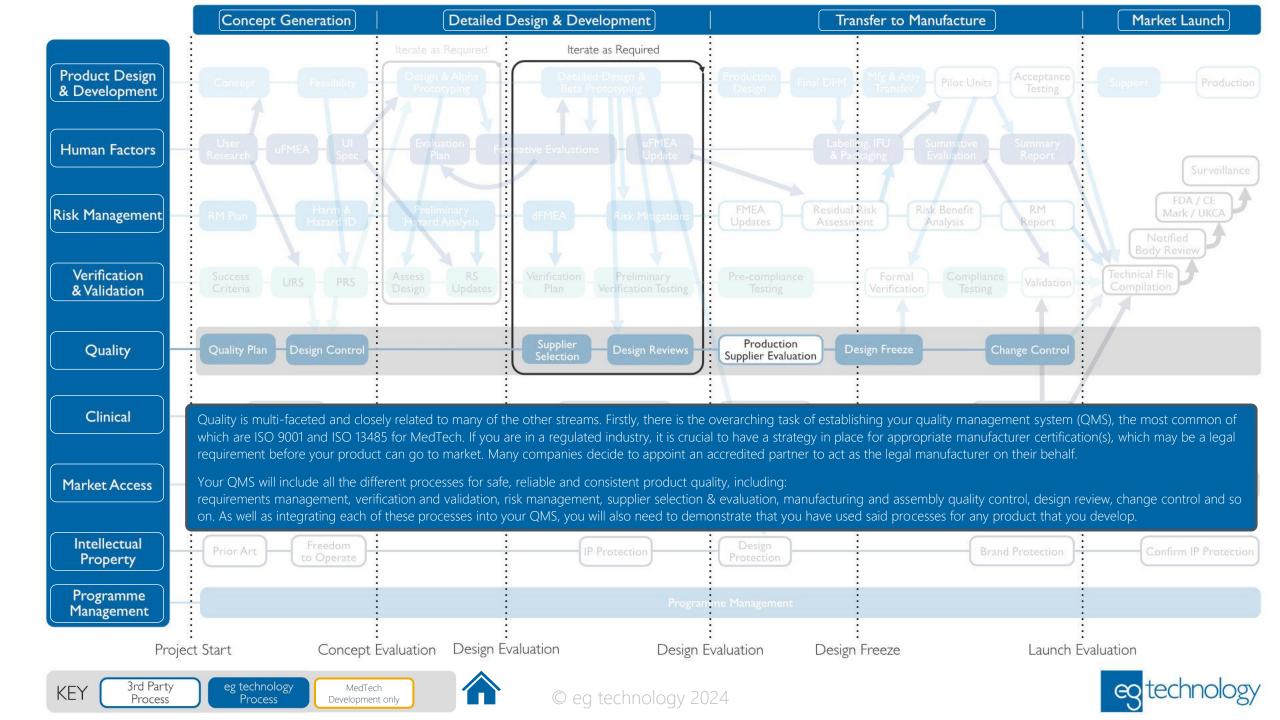


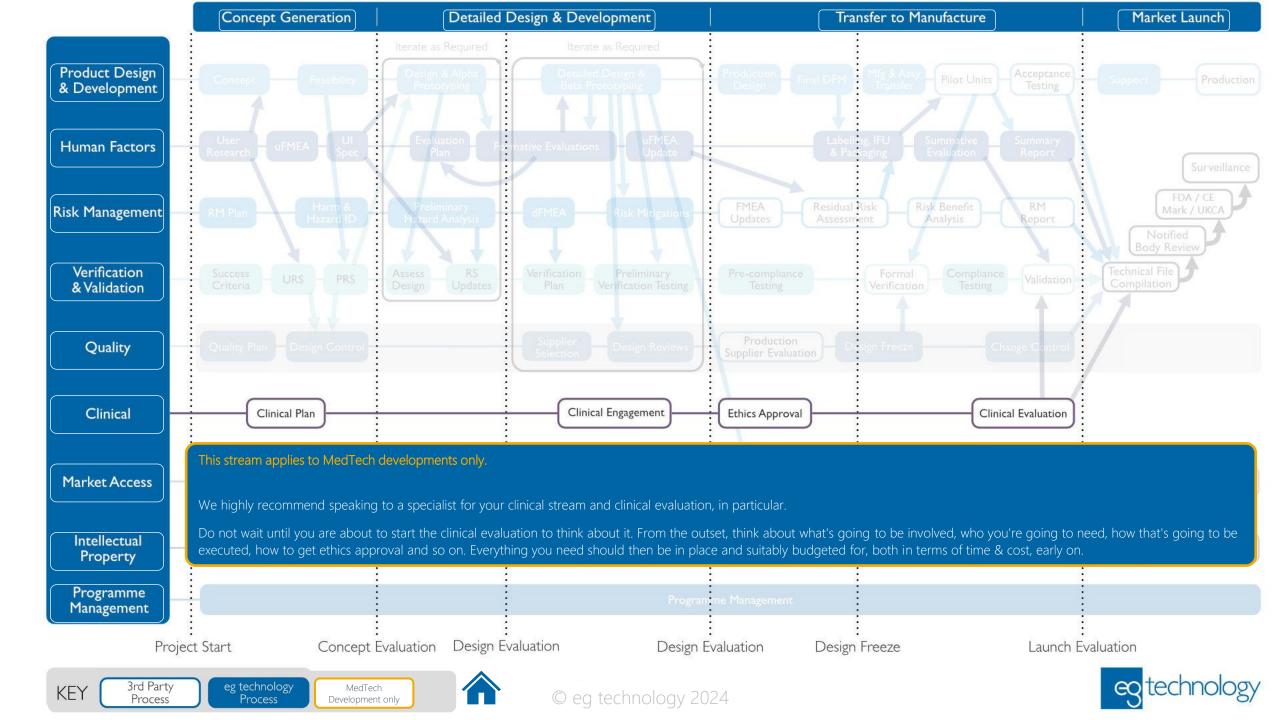


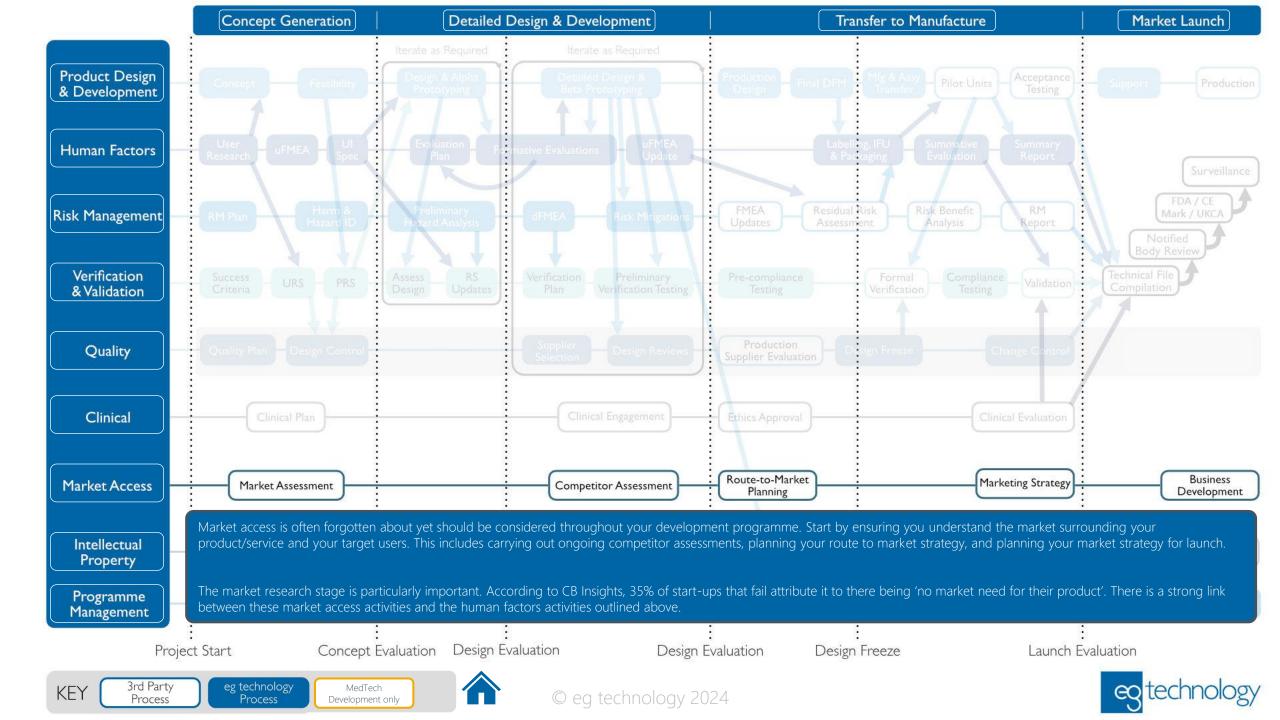


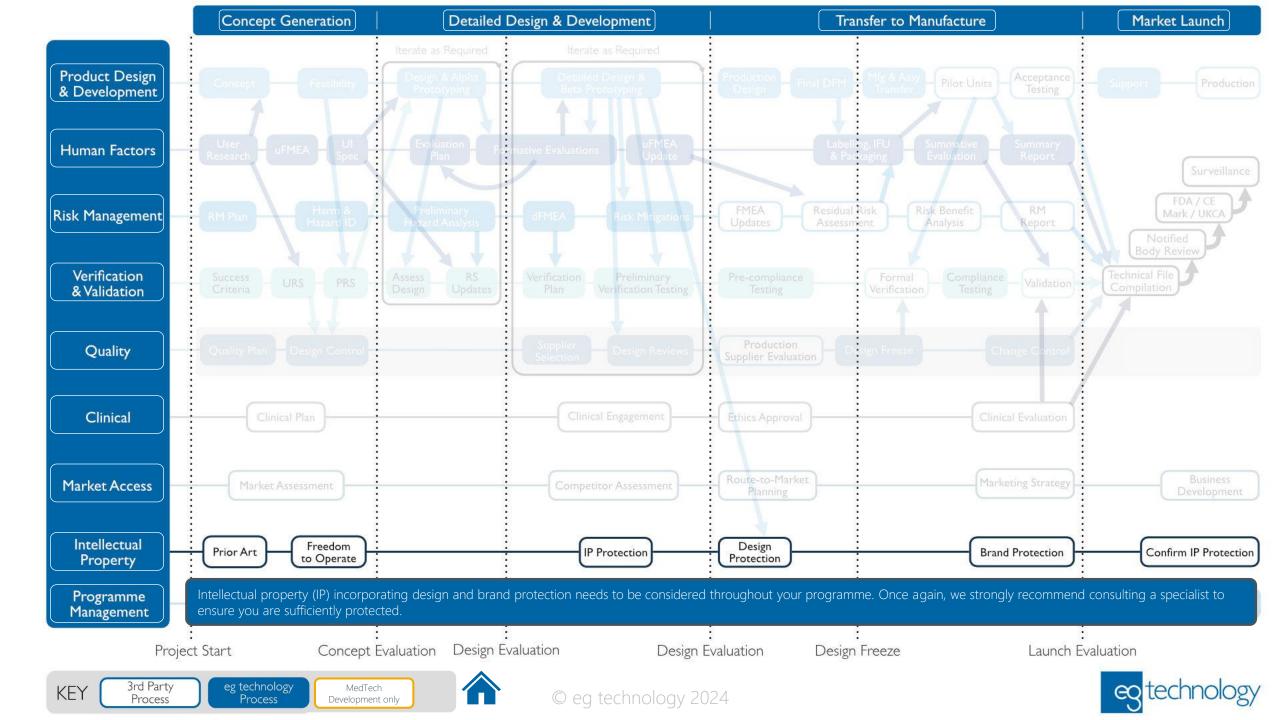


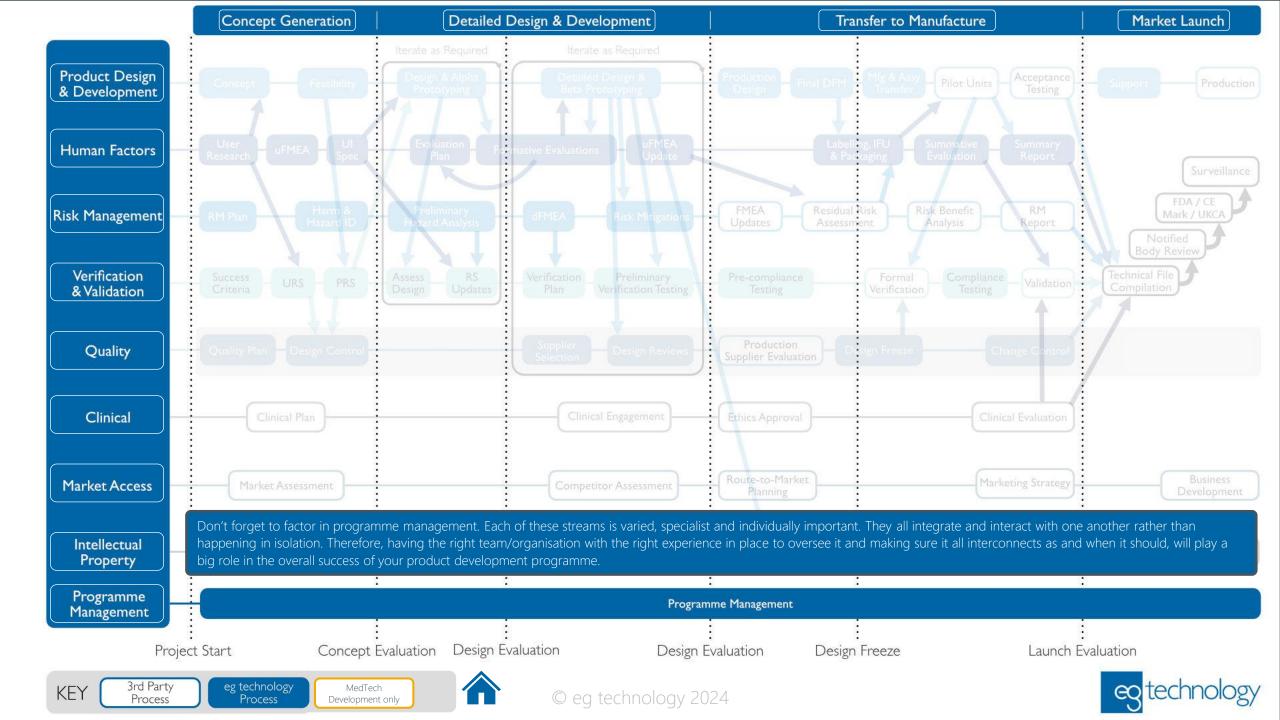
	Concept Generation	Detailed Design & Development		Transfer to Manufacture	Market Launch
		Iterate as Required	Iterate as Required		
Product Design & Development	Concept Feasibility	Design & Alpha Protosyping	Detailed Design & Beta Prototyping	Production - Final DFM Mfg & Assy - Pilot Unit Design - Final DFM Transfer	s Acceptance Support Production
Human Factors	User Research uFMEA UI Spec	Evaluation Plan Formativ	e Evaluations Update	Labelling, IFU & Packaging Evaluation	Summary Report Surveillance
Risk Management	RM Plan Harm & Hazard ID	Preliminary Hatard Analysis d	FMEA Risk Mitigations	FMEA Residual Risk Risk Benefit Updates Assessment Analysis	RM Report Notified Body Review
Verification & Validation	Success Criteria URS PRS	Assess RS Design Updates	Preliminary Plan Verification Testing	Pre-compliance Testing Formal Verification Testin	
Quality The verification & validation stream shown here describes what is commonly known as the V model. If you are not yet familiar with the V model or the basics of requirements management, check out our blog on the subject here.					
Clinical	The V model is about identifying your user needs or user requirement specification (URS). Then using that (and other information you have) to define your design inputs or product requirement specification (PRS), which is about the functional and performance requirements of your product.				
Market Access	The most important thing to remember is that you verify against your PRS and validate against your URS.				
Intellectual Property	Don't forget compliance testing, which is part of your verification testing but focuses on the standards that relate to your product. For example, it might include EMC (electromagnetic compatibility) testing, electrical safety testing and other market/product specific standards testing. It depends what standards apply to your product, so it's important to identify those standards early on, within your requirement specifications so you can design compliance into your product.				
Programme Management Be sure to include compliance testing in your verification and validation test plan and timeline as well. Along with your other formal verification (e.g. benchtop functional tests) and validation testing (clinical evaluation where applicable & summative usability study).					
Proje	ect Start Concept I	Evaluation Design Evalua	tion Design Ev	valuation Design Freeze	: Launch Evaluation
KEY 3rd Party Process	eg technology MedTec Process Developmen		© eg technology 202	24	eg technology

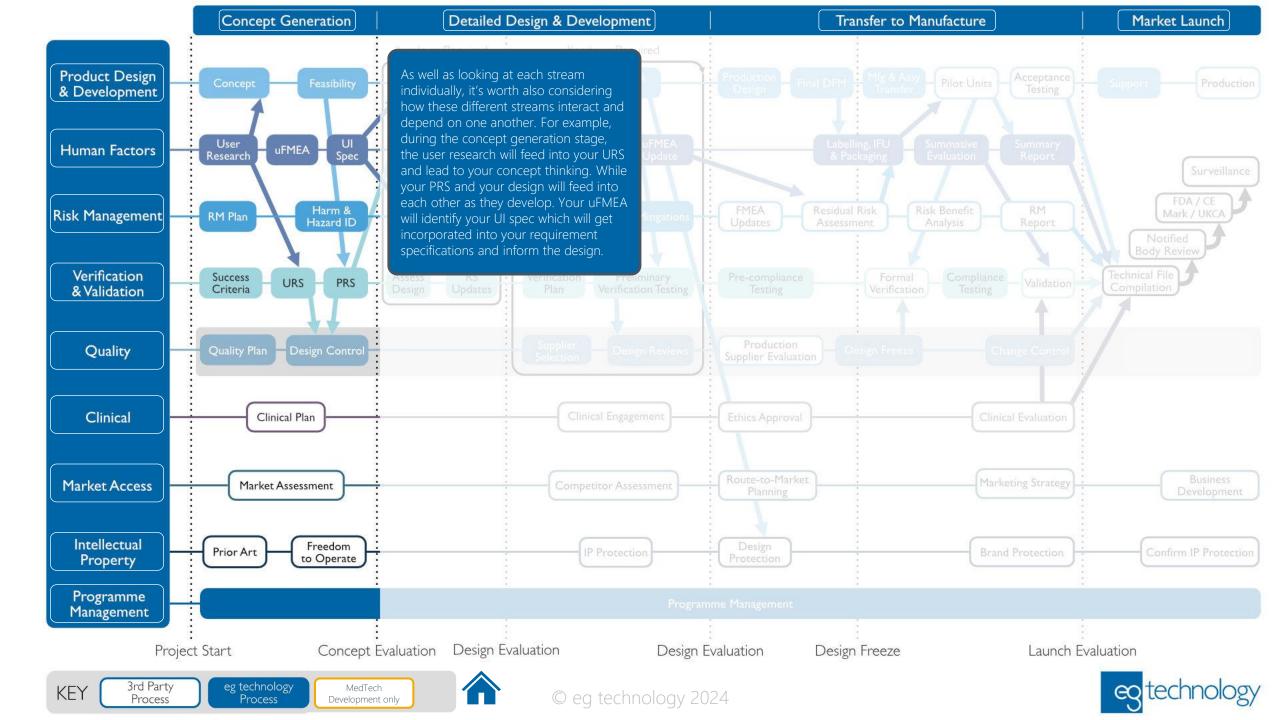


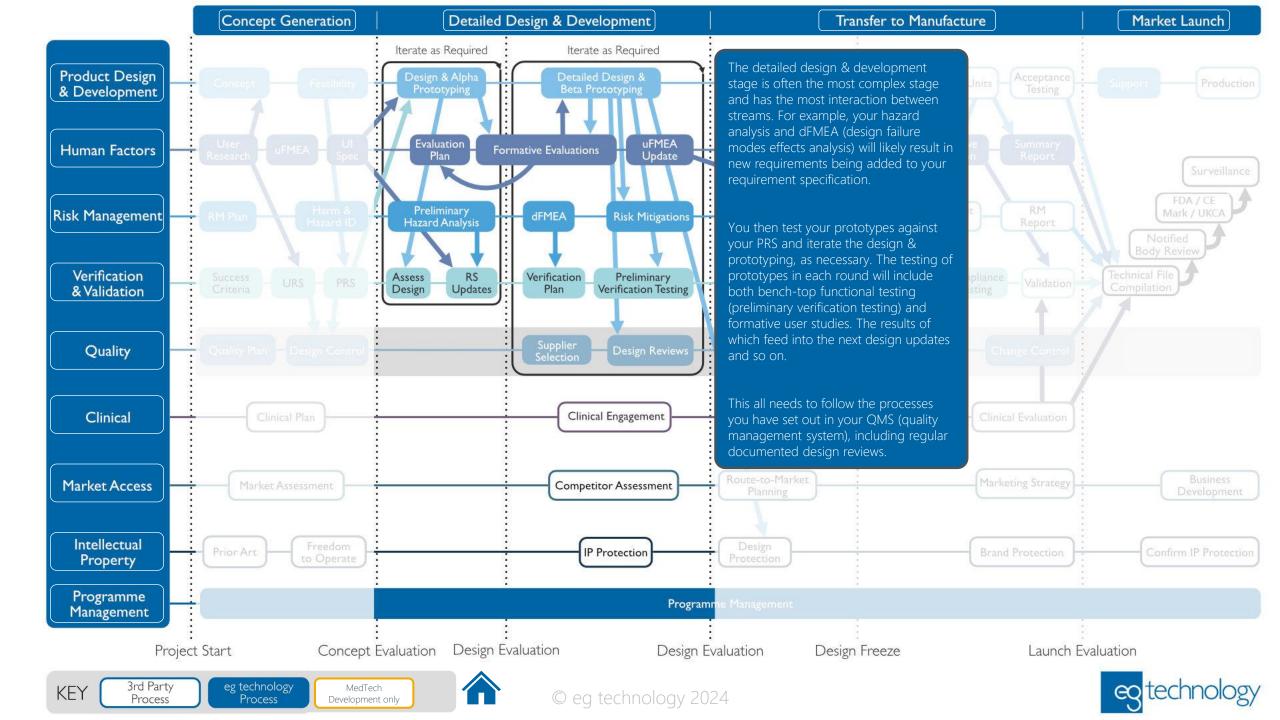


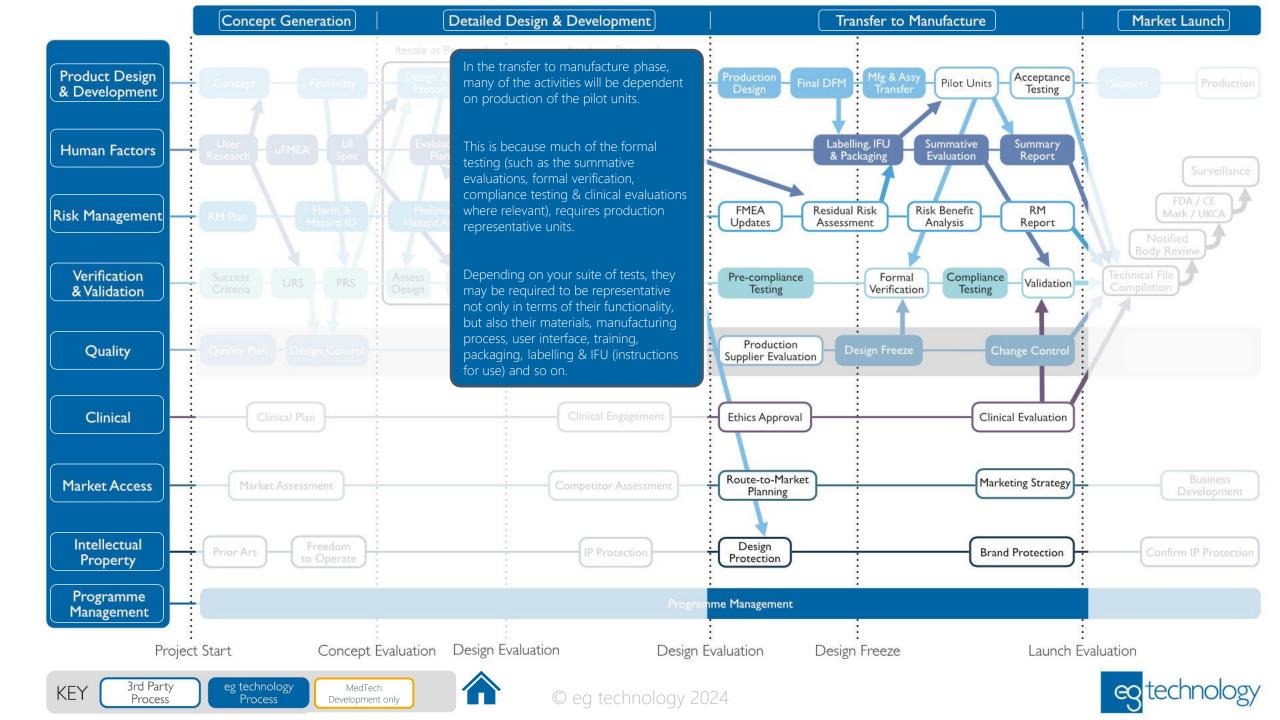


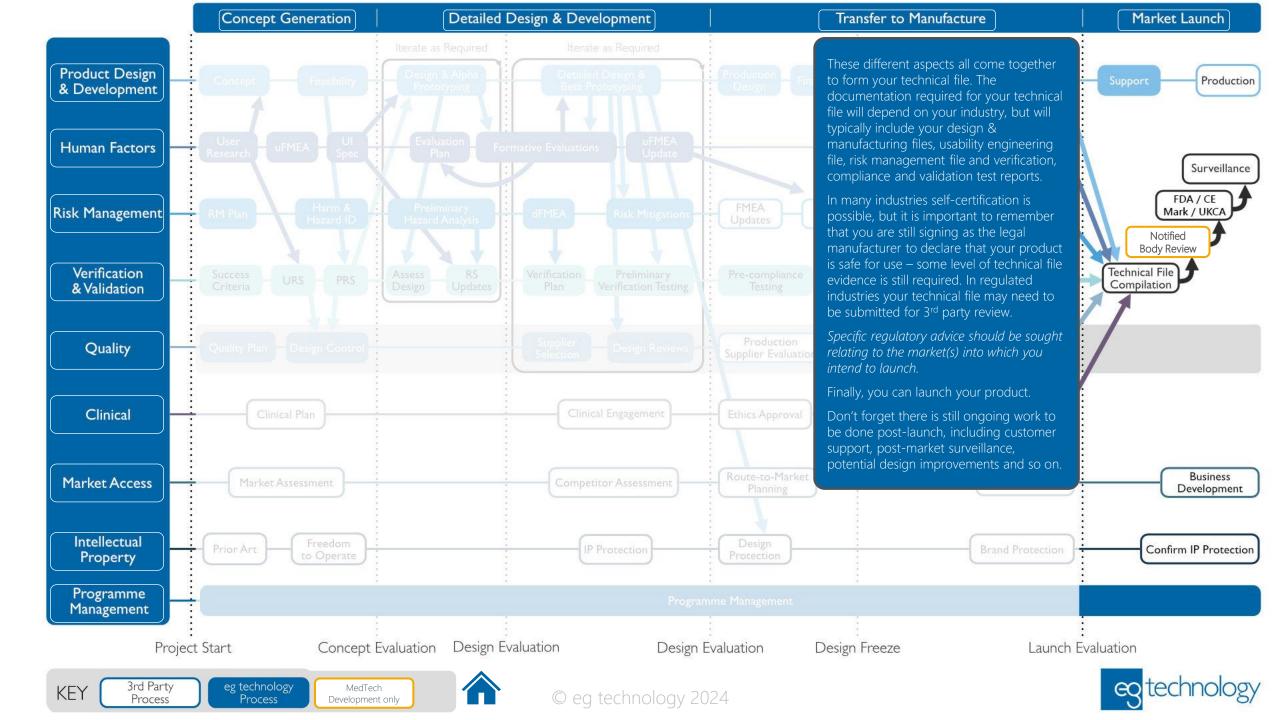














To discuss your product design and development requirements, please get in touch with our team:

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