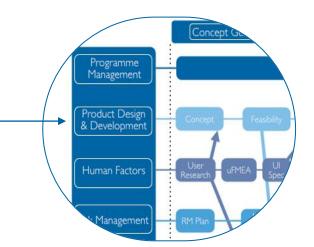


Product Design & Development Plan – Interactive Guide

How to Use This Document

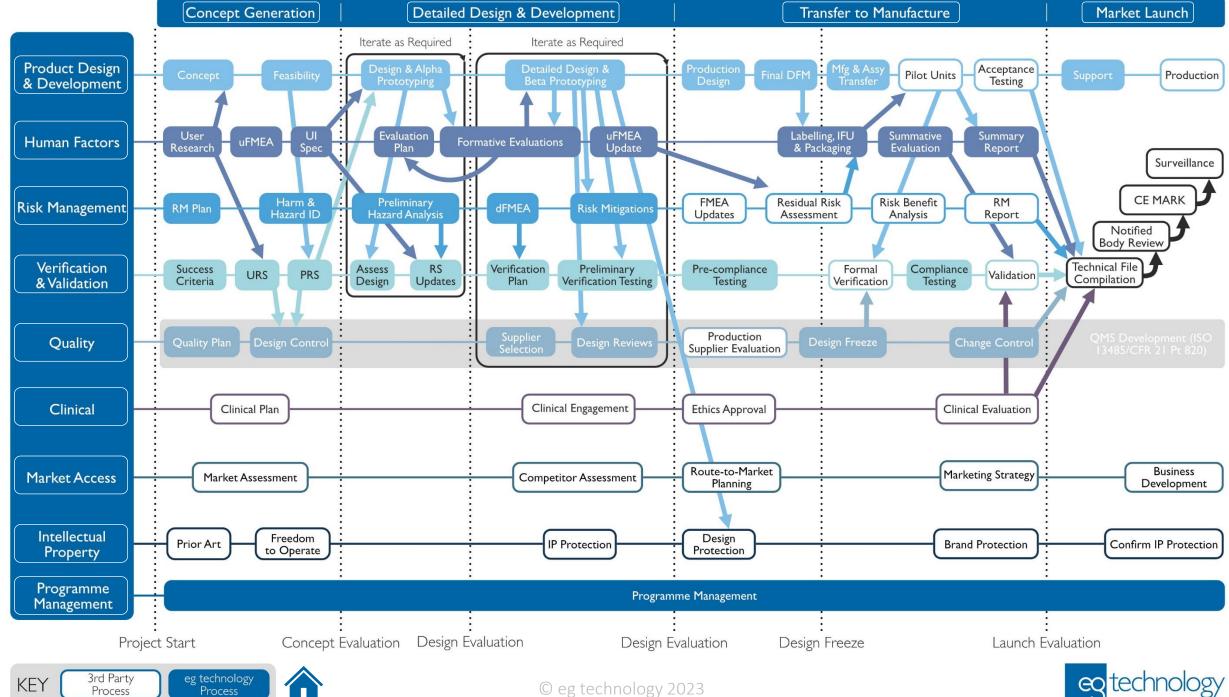
- The diagram on the following pages shows the key stages (along the top), and key processes (down the lefthand side) involved with a typical medical device design project
- The arrows represent the interactions between the various processes
- Click on the **white heading boxes** to find out more about each process
- Press at the bottom of the page to return to the full process diagram
- Diagram Key
 - Colour-fill boxes: services offered by eg technology
 - White-fill boxes: services to be provided externally eg can recommend third parties if requested

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

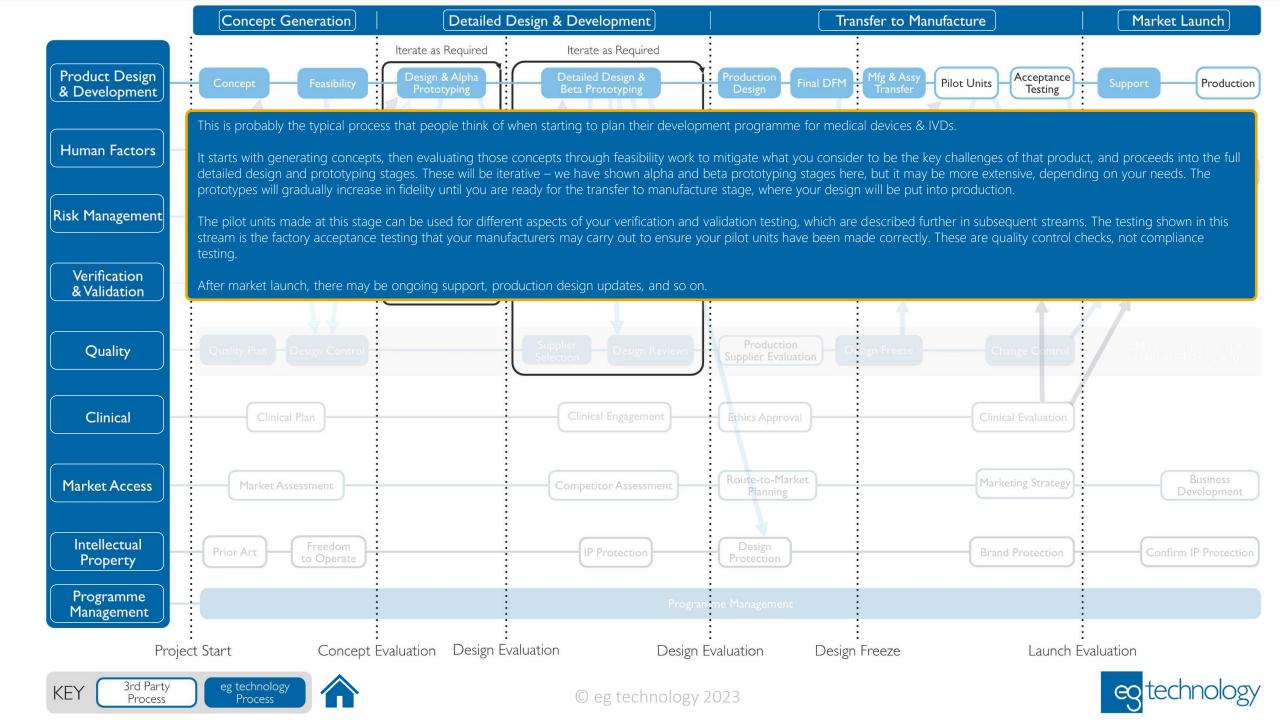


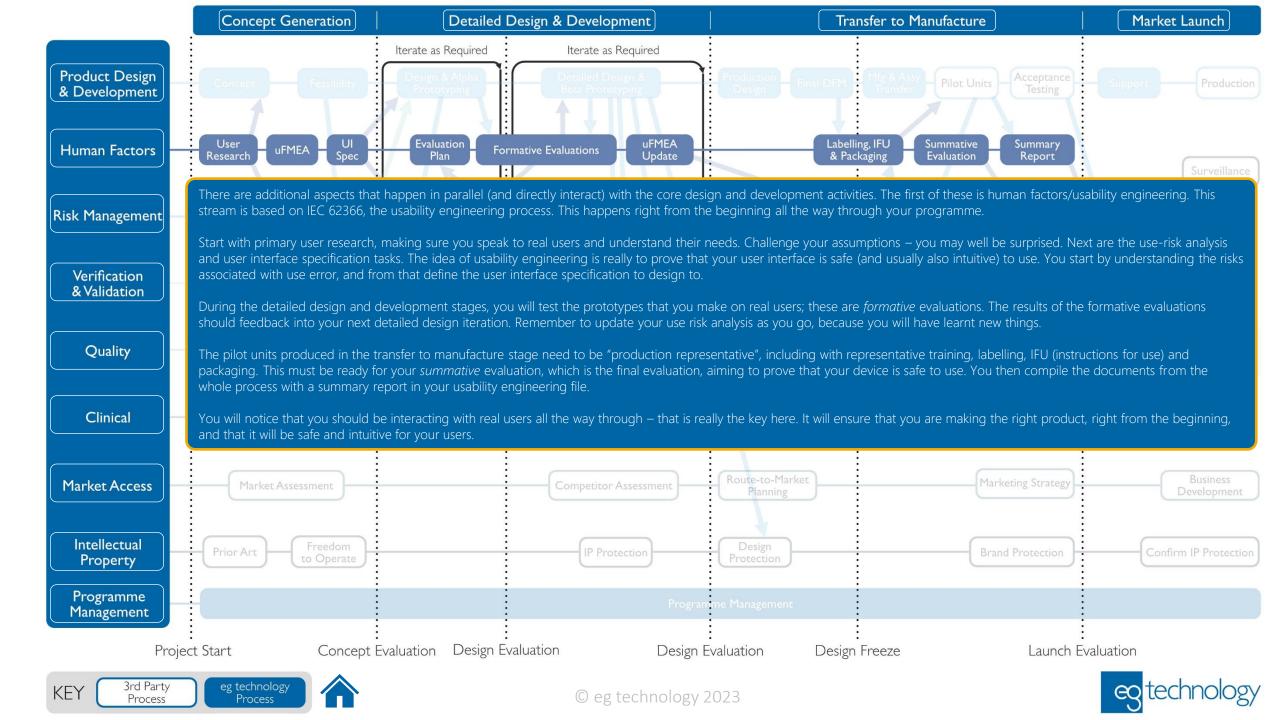




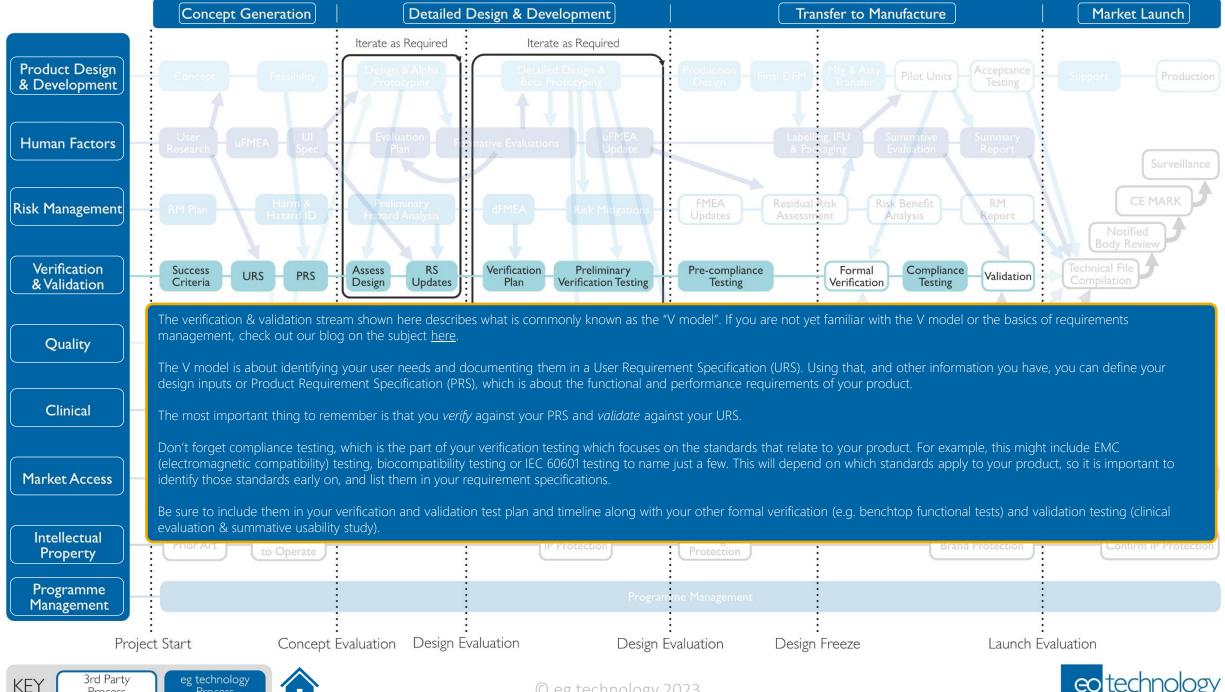


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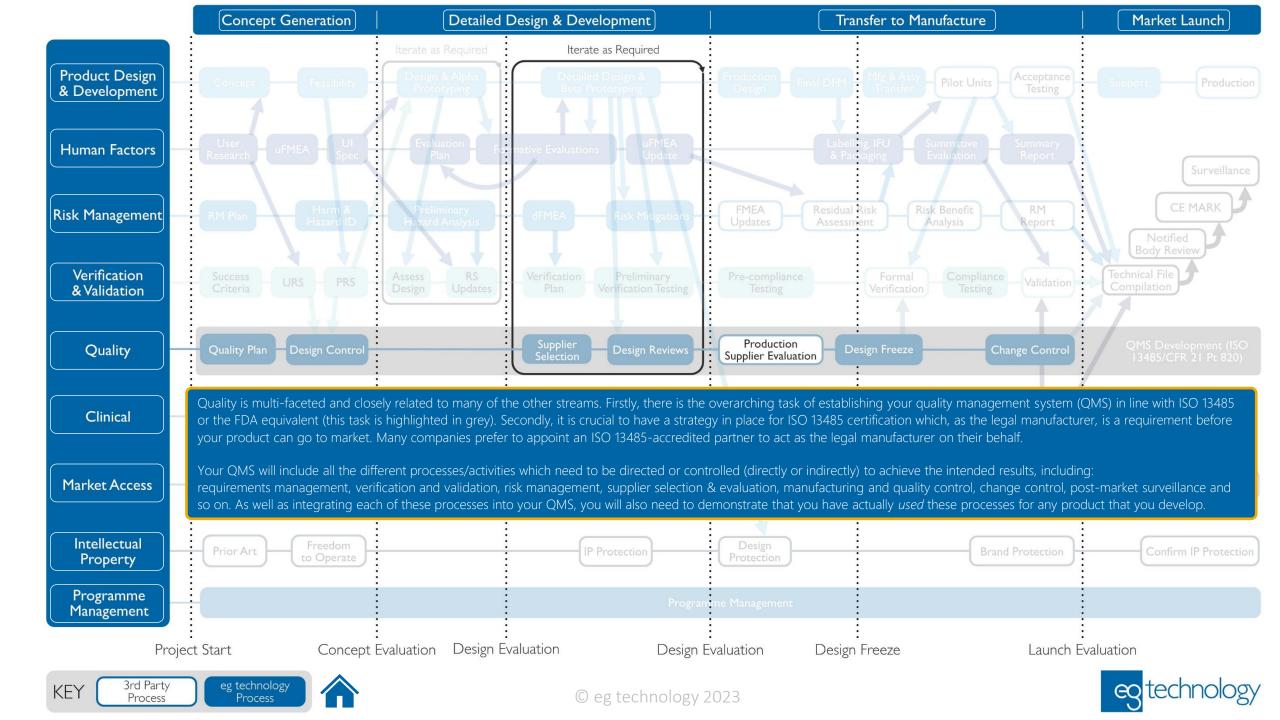


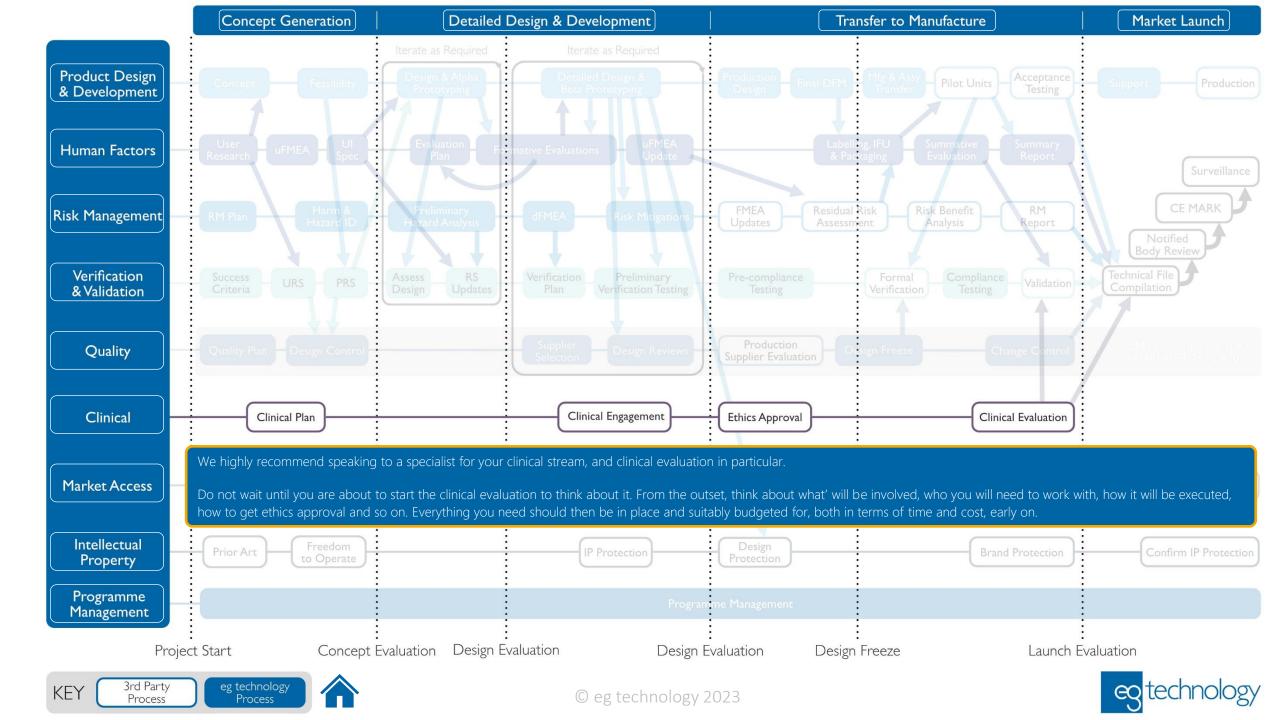
| | Concept Generation | Detailed Design 8 | & Development | Tran | sfer to Manufacture | Market Launch |
|---------------------------------|--|--|--|---|---|--------------------------------------|
| Product Design & Development | Concept Feasibility | Iterate as Required | Iterate as Required Detailed Design & Beta Prototyping | Production Design Final DFM | Mfg & Assy Transfer Pilot Units Accepta Testin | |
| Human Factors | User uFMEA UI Research uFMEA Spec | Evaluation Plan Fermative Eva | aluations UFMEA Update | Labellin & Pack | g, IFU Summative Summar aging Evaluation Report | |
| Risk Management | RM Plan Harm & Hazard ID | Preliminary Hazard Analysis dFME | Risk Mitigations | FMEA Updates Assessme | | |
| Verification & Validation | Risk management is another ver which you will need to comply. C Starting with a risk management | Dice again, you can see different | t elements happening throu | ughout the programme. | regulations. The process described definitions are, and so on. | here is in line with ISO 14971, with |
| Quality | In the early concept generation followed by a preliminary hazard | stages, even though you don't ha I analysis to identify risks and haz | ave a detailed design, you c zardous scenarios. The miti | can start to identify the top- gations to those risks should | level hazards and harms that your feed back into the design. | |
| Clinical | In a later detailed design stage, we typically do a dFMEA (design Failure Mode Effects Analysis), which goes into more detail. As you progress into the transfer-to-manufacturer phase, there might be other types of FMEA you want to do as well, such as a process FMEA, or a transport FMEA, depending on your product. The aim of this process is to mitigate the risks as best as possible, but you can't remove them altogether. So the last few stages include a residual risk assessment and a risk-benefit analysis. | | | | | |
| | It is important that this is done b | | edge and expertise, and ty | pically also relevant clinical e | expertise to really assess whether th | |
| Market Access | Market Assessment | C | Competitor Assessment | Planning | Planketing Strat | Development |
| Intellectual Property | Prior Art Freedom to Operate | | IP Protection | Design Protection | Brand Protection | Confirm IP Protection |
| Programme Management | | | | me Management | | |
| Proje | ect Start Concept I | Evaluation Design Evaluation | Design E | : Evaluation Design I | Freeze Laur | : nch Evaluation |
| KEY 3rd Party Process | eg technology Process | | © eg technology 2 | 2023 | | eg technology |

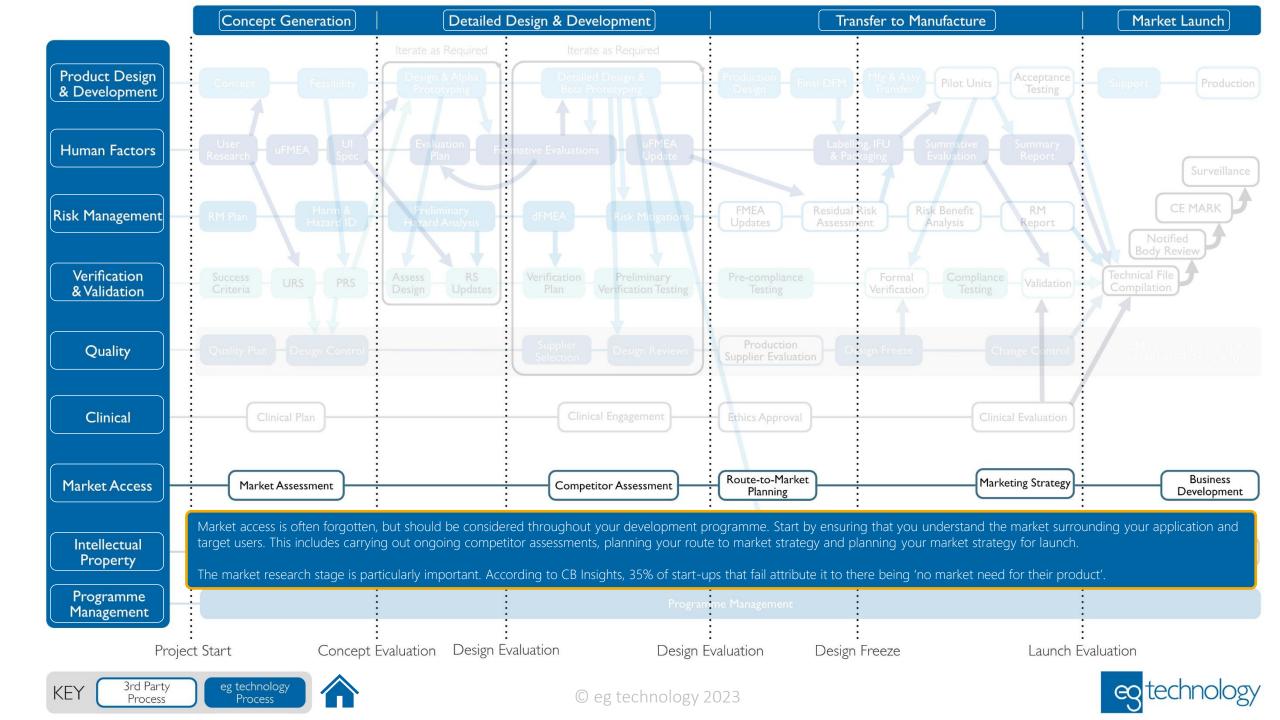


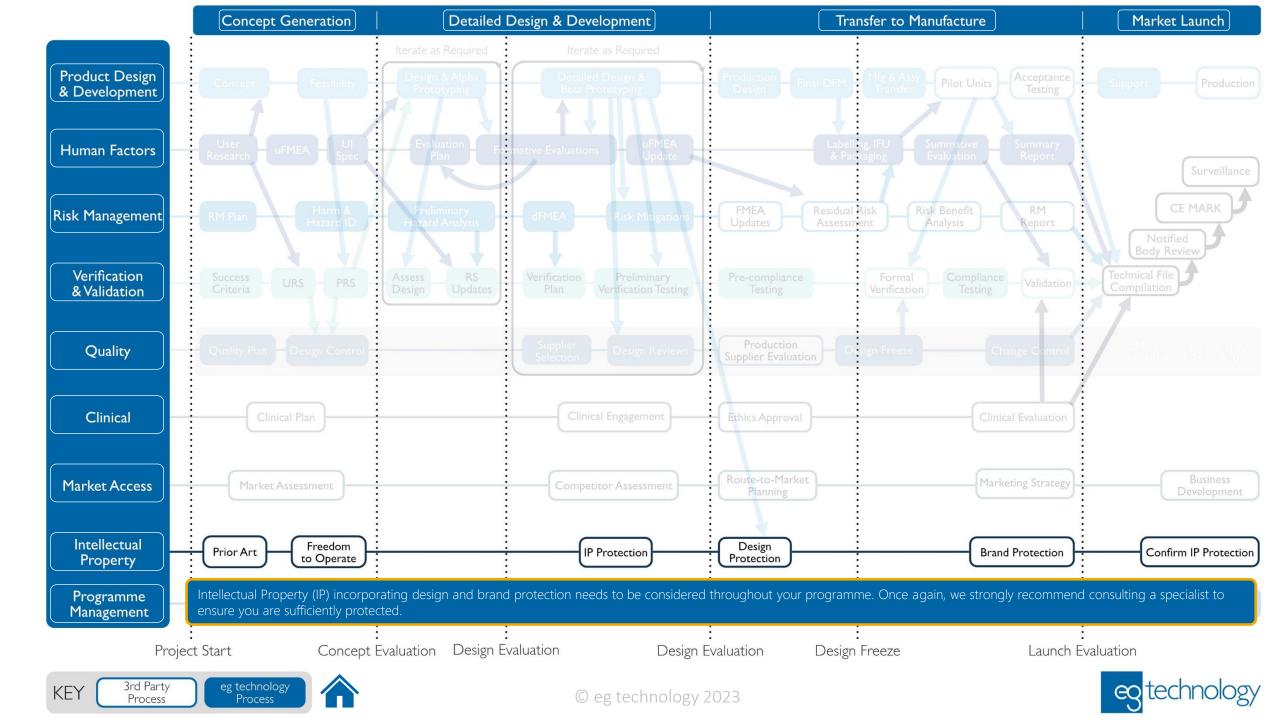
Process

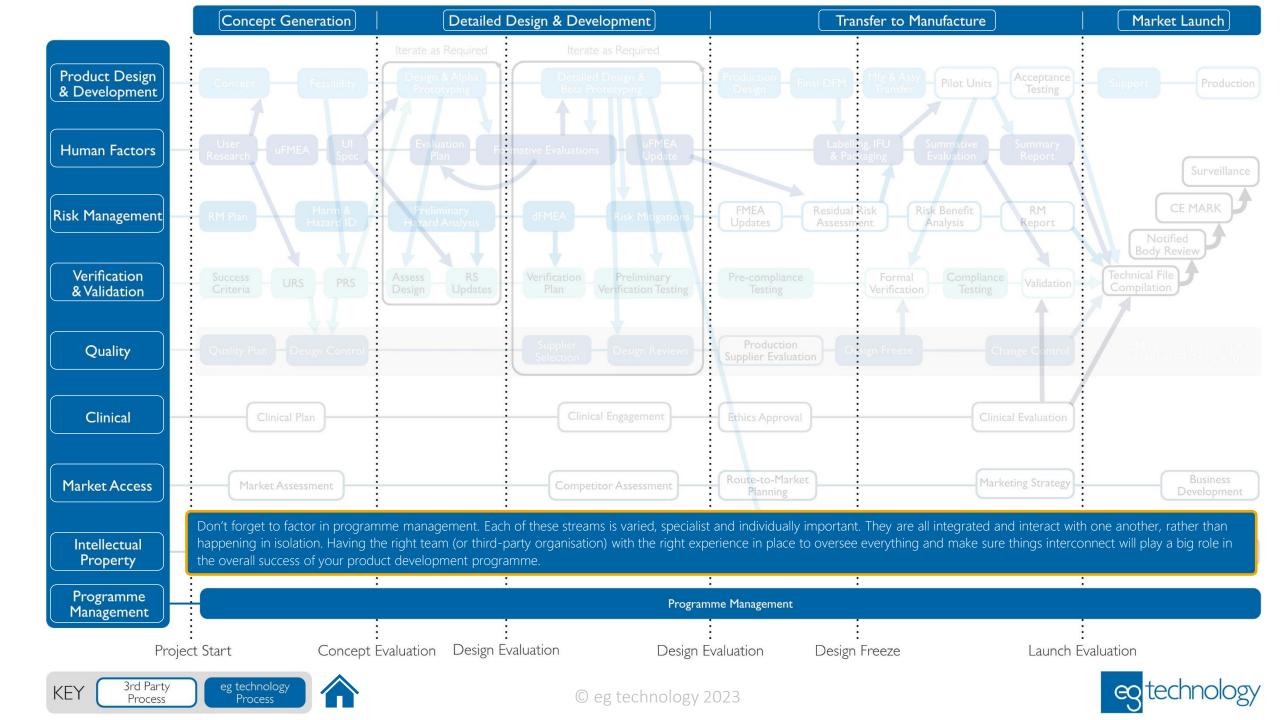
Process

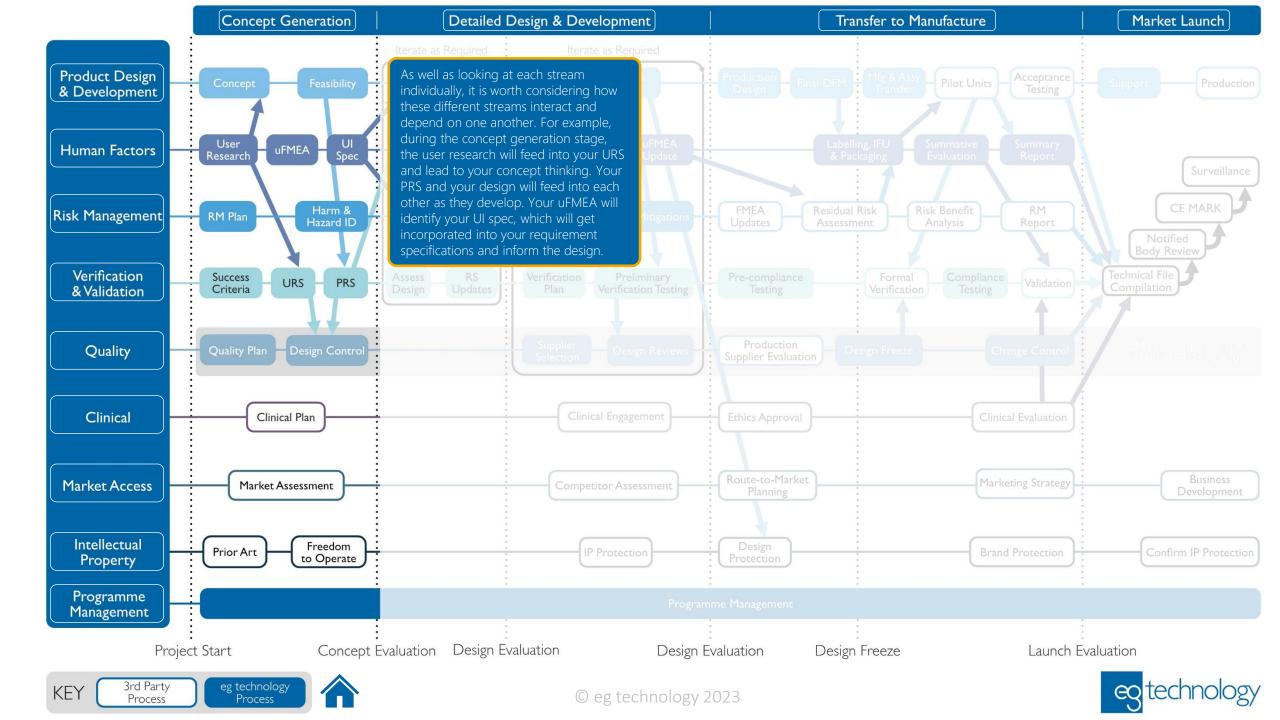


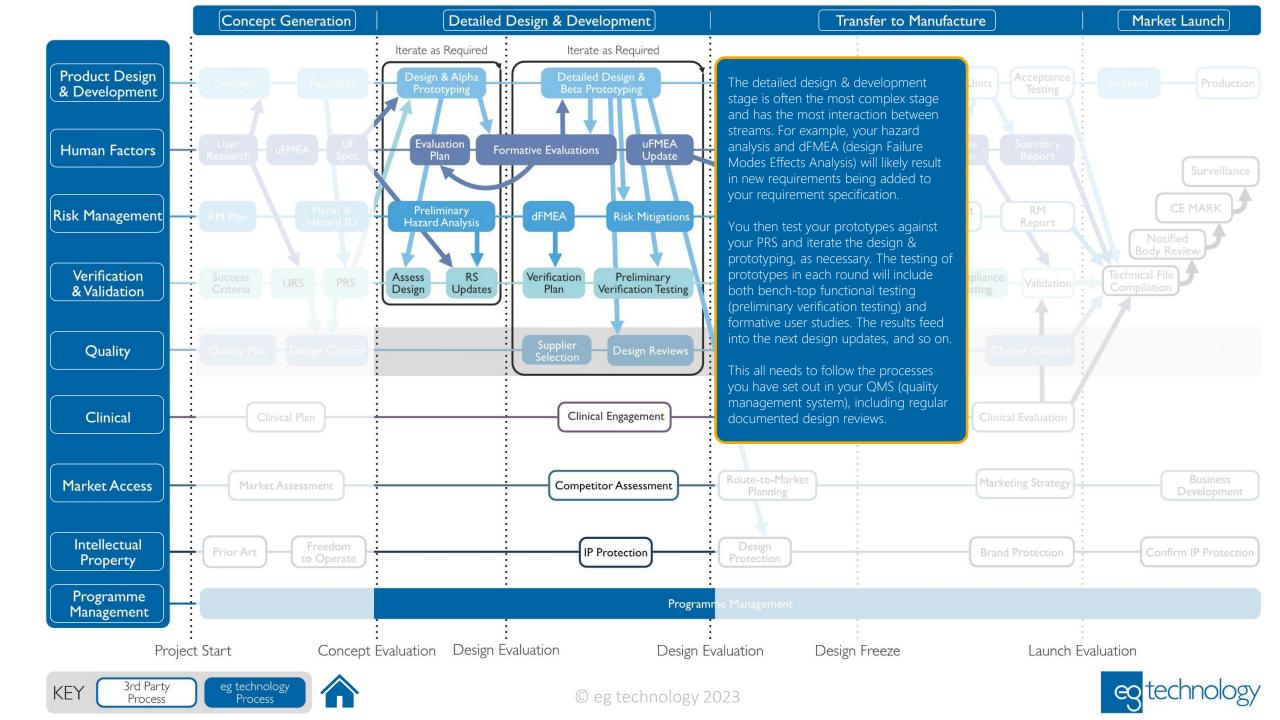


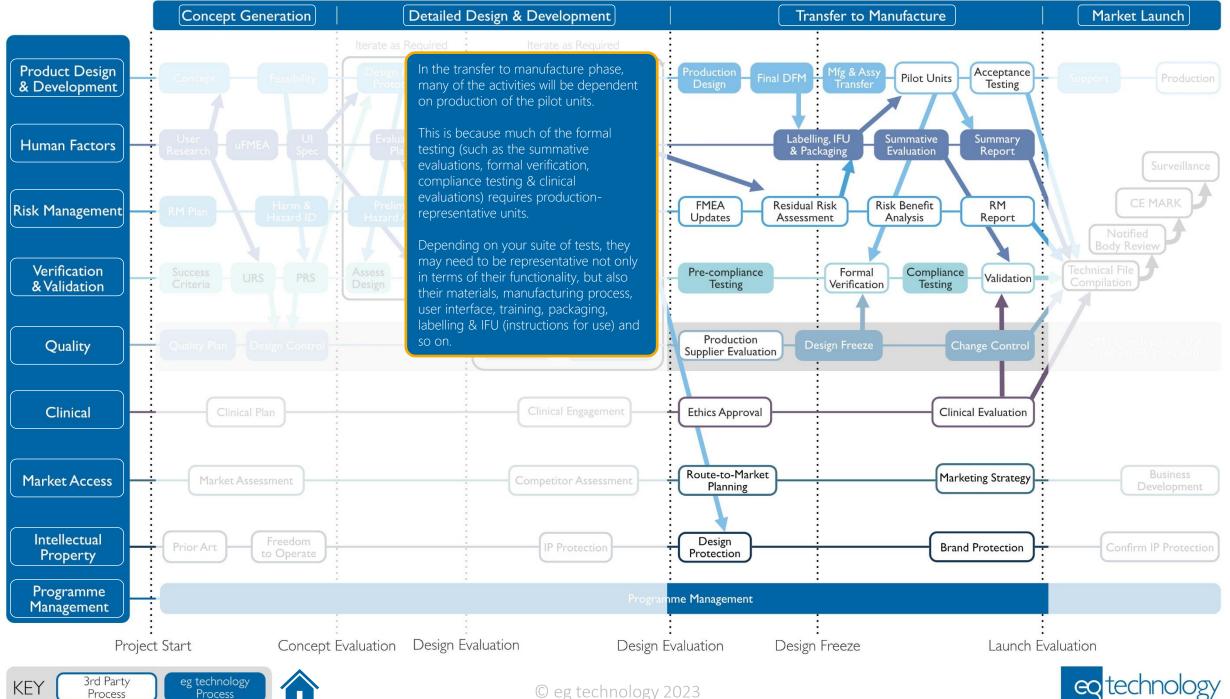






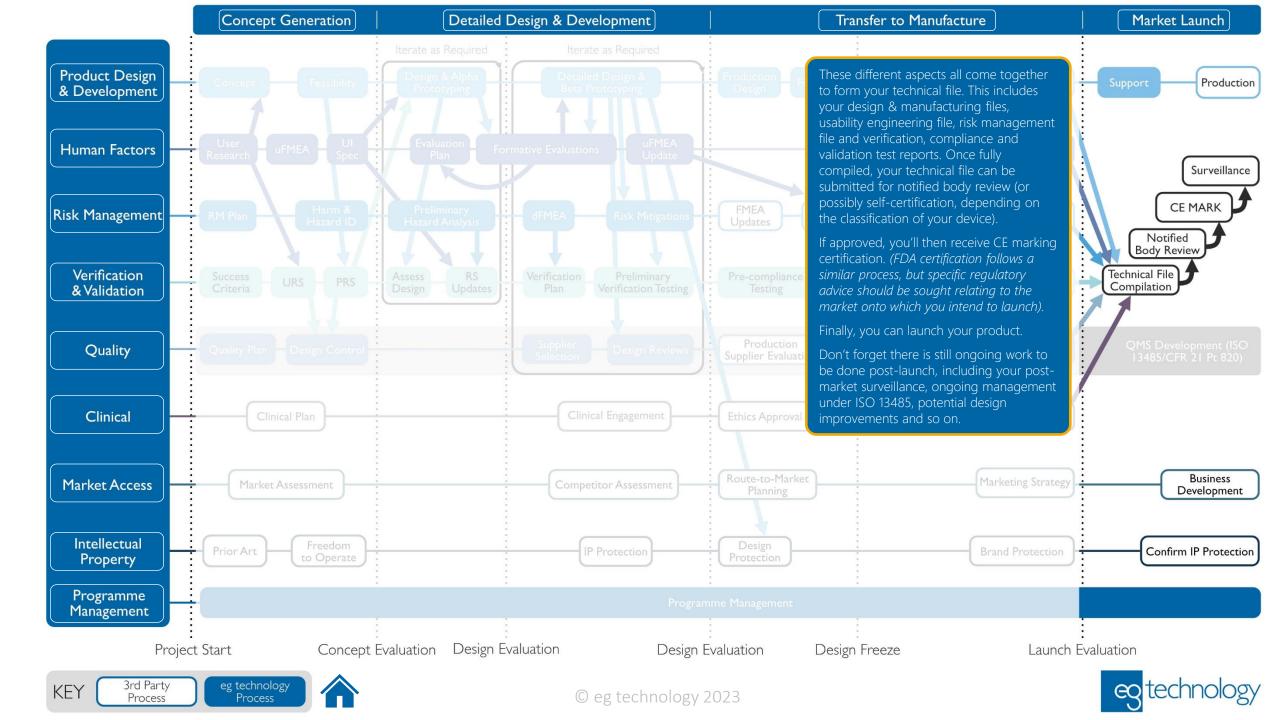






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To discuss your product design and development requirements, please book a call with one of our team:

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