

## How to De-Risk your projects?

Lockdowns are beginning to lift in some countries, which mean that many are getting back to business while still facing challenges of smaller budgets, uncertain demand, and tighter resources.

But this is not the moment to put innovation on hold. No matter where you are in the process of getting your business on track, there's a good chance Feronyl within SUB-ALLIANCE could add value.

From **simulating market readiness**, **checking feasibility**, and **scaling up production**, discovers why many are already turning to Feronyl to minimize risk.

Feronyl within the SUB-ALLIANCE E.I.G. capabilities offers global short market approach:

Simulation technologies

Prototyping technologies

Low-volume technologies

Serial Production

**Simulation technologies** are put forward in early stage of our developments, we share our expertise of “product behavior prediction” before you invest in expensive prototypes and toolings. What makes our approach unique? Feronyl engineers take the material and process properties into account in early stage of the Finite Element calculations, scientifically renowned as Anisotropic material specifications. In very early stage, we know how and when the product will work within his application. Our expertise with dynamic non-linear simulations in multi-material productions (Metal combined with composites and polymers), were used in aerospace product developments. Nowadays we opened up this capability to all our customers.



When the product has been virtually tested in transient (time dependent) dynamic conditions, engineers can move to the validation phase with our **Prototyping technologies**. As we're not limited to just 1 technology of manufacturing process, we combine Additive Manufacturing with conventional technologies and assembly capabilities. Within hours or days, our teams are able to deliver state of the art prototypes, not a look-a-like fitting model but a product that can be used and tested in real-world conditions.

When virtual and real world testing is finalized, engineers can move to toolings and technologies capable of **low-volume production**. This domain is so various and so project specific, an example is the development of Covid19 related products. Within days innovative designs were moved from virtual and prototype validations to serial manufacturing. In 6 weeks Feronyl could provide within their facilities first molds and tools, cost was highly reduced and with limited investments ready to start your new business.

Following your sales goals and the market pick-up, additional cavities can be added to decrease product costs and enhance production rates within the **serial production**.

This 4 - steps approach is very agile and managed by dedicated and highly qualified project engineers. In normal days the services are used by Sportcars companies, aerospace manufactures, energy and technology companies, in this Pandemic uncertainty period, medical device were developed within our renewed high quality standards.

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Established in Mouscron (Belgium) since 1950, Feronyl is one of the SUB-ALLIANCE E.I.G. companies.

SUB-ALLIANCE is specialized in manufacturing of advanced mechanical systems, mainly composed of polymers, composites, metals and transmissions. The four business units can provide stand-alone manufacturing capabilities or join forces on common Research & Development projects.

The four business units are Feronyl, Dedecker Precision Mechanics DPM, Tecnolon Works and Grimonprez Transmissions Gears.