

## Formulation Software Update

Spring 2017

### A new brand

In October 2016 we launched our new brand, **Format Solutions.**



This brand reflects our heritage, the combined businesses of Format International and Feed Management Systems and underscores the organisation's commitment as a proved technology partner providing integrated feed and food software solutions.

On launching the brand, Managing Director Bruce Feist commented, "Format Solutions represents where we want to be as the trusted-partner, understanding our customers' businesses and bringing significant industry knowledge, investment in software and services solutions to our customers – helping them to grow their business."

"We will continue to innovate and develop our products and services so we can deliver the best technology solutions to the market", he said.

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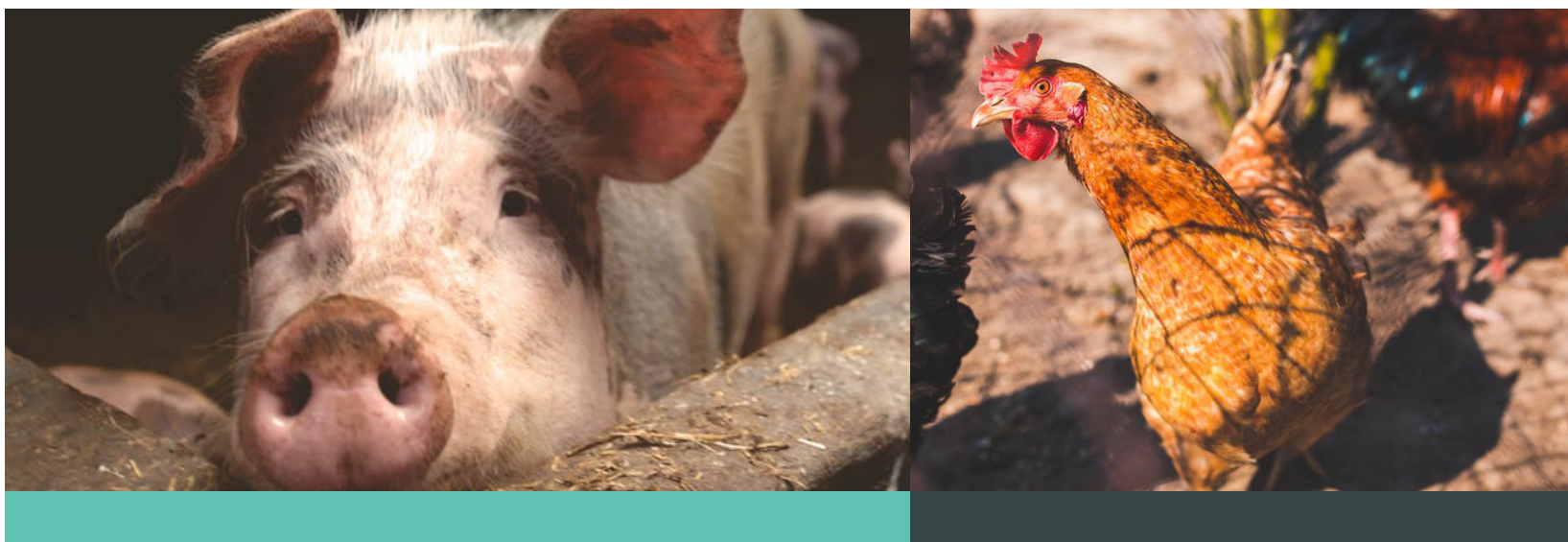


## Ongoing investment – New products and services

Format International had a long-standing reputation as an innovative leader in formulation software. As Format Solutions, this remains at the heart of what we do, with significant, ongoing investment in the **Indigo™ formulation** platform.

In addition, Format Solutions is now able to offer a broader range of software solutions, tools and services in the fields of **Nutrition** and **Feed Operations Management**, bringing additional opportunities and value to our customers.

We'll be introducing some of these features in this update.



### Focus on Operations software

Increasing complexity and regulatory pressure in our industry is driving up operational costs and the need for increased efficiency, quicker decisions and accurate record keeping.

To tackle these challenges, Format Solutions product portfolio includes **Pennent®**, the Operations Management and Modelling software tools which are specifically designed for the animal feed industry.



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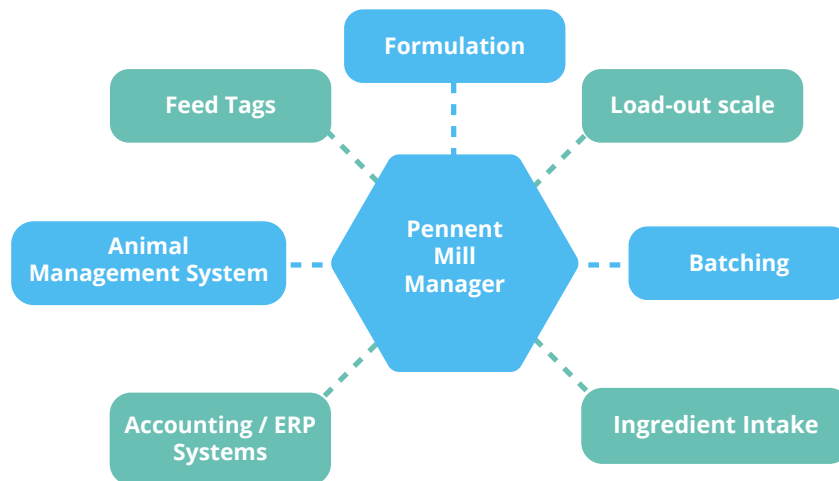
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# The right feed at the right time to the right animals

**Pennent® Mill Manager** provides the critical link to ensure seamless nutrition execution from formulation to batching to delivery.



**Pennent® Mill Manager** is an operational hub connecting formulation, purchasing, inventory management, manufacturing, financials and other systems. Pennent® proves the power of software in helping you manage important data efficiently and accurately in key areas such as ingredient management, regulatory compliance and provides improved management reporting to help you make better decisions faster.

## Improve Overall Equipment Effectiveness and Product Quality

As you drive to improved efficiency are you experiencing productivity losses whose cause you can't identify? Pennent® Modelling helps you find the causes so you can focus on improvements in producing quality feed efficiently. Simple and practical, it provides information on equipment performance in three major categories, whilst taking into account targeted costs of personnel, utilities and other operational areas:

Availability | Productivity | First-pass quality

Software proves its value in allowing you to analyse and view data in a new way. Pennent® Modelling does this on key parameters specific to the feed milling industry. There is no other tool available in the industry that can provide this comprehensive level of operational impact on your business.

## Indigo™ Formulation software release

The latest version of Indigo™ formulation software has seen further innovative additions to its optimisation capabilities along with a wide range of other enhancement.

### More optimisation features

**Parametrics** and **Non-Linear Constraints** optimisation are now both available in Single-Mix® and Multi-Mix®, adding to the **Mixed Integer** solver that was added previously.

# iNDIGO™



Parametrics gives easily interpreted numeric and graphical reports of the effects of variability in ingredient or nutrient level, ingredient cost or availability, helping the risk assessment and decision-making process.

Easy and convenient to use, a Parametrics exercise quickly returns valuable, focused information to give you the responsiveness you need. Results can be summarised or investigated in full detail.

Furthermore, following the streamlined approach at the heart of Indigo™, these optimisations can be combined, giving an extremely powerful toolkit that allows you to accurately model complex real-world situations. For example, it is now possible to run a Multi-Mix® Parametrics exercise on ingredient availability, that also takes into account weighing constraints in the plant (using the Mixed Integer solver) and the effects of enzyme incorporation on nutrient availability (using the Non-Linear constraints solver).

### *Indigo™ - The business tool that also formulates*

#### News



We welcome a new colleague to the team, Cesar Infante, who is the Regional Business Development Lead Europe, Middle East and Africa. Originating from Colombia and a graduate in Agricultural Production Engineering from the University of La Salle, he has worked in several Cargill businesses, including commodities and in creating risk management solutions for agricultural producers.

You can now follow Format Solutions through various social media channels. Watch out for news, product announcements and best practice tips through these routes –

 [linkedin.com/company/format-solutions](https://www.linkedin.com/company/format-solutions)

 [facebook.com/Format-Solutions](https://www.facebook.com/Format-Solutions)

 [twitter.com/formatsolutions](https://twitter.com/formatsolutions)

You can also find product information via our website

For a discussion on any of the topics covered in this update, please contact us through the following methods –

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