For a poultry company producing 100 million broilers per year, **partnering with Elanco to improve Intestinal Integrity (I^2) index by 5 points could mean an income boost of**

£572,000[6]

Proven correlation with key performance indicators

As I^2 goes up by one unit[2,7]:

- **ADG** increases by **0.04g**
- **FCR** decreases by **0.13pts**
- **EPEF** increases by **0.52**
- **% livability** increases by **5%**

I^2 score is correlated with percent livability

The widespread cost benefits of improving I^2:

- Healthier intestinal tract
- More efficient absorbtion of dietary nutrients
- Decreased feed costs
- Reduction in waste excretion

Elanco HTSi
Insight for healthier business decisions

For further information or queries, please contact the Elanco team.

References: 1. Blake DP Veterinary Research 2020 1 (v1.0) **2.** Swirski AL Agriculture 2020 1 (v1.0) **3.** Saggiorato M *et al* XIIIth European Poultry Conf 2010 (v1.0) **4.** Salois M Elanco Raised without Antibiotics can lead to more use of Medically Important Antibiotics 2 (v1.0) **5.** Maxiban Detailer KE (v1.0) - Williams, R. 1999 "A compartmentalized model for the estimation of the cost of coccidiosis to the world's chicken production industry" (p.6) Parasitology; **6.** 2021 HTSi annual report **7.** Kasab-Bachi H *et al* Prev Vet Med 2017 130 (v1.0)

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Elanco HTSi
Insight for healthier business decisions

The impact of poor coccidiosis control costs approximately

£10.5 billion

per year worldwide[1]

Prevent problems before they happen and boost the income of your poultry business.

HTSi - A Great Business Decision

Elanco's Health Tracking System (HTSi) allows broiler companies to gain unprecedented insight into their business.

It uses the power of data to facilitate more informed business decisions that **maximise production**, **minimise losses** and therefore **improve profit margins**.

This ultimately drives more sustainable poultry production.

A Unique and Comprehensive Source of Data

The unrivalled breadth and depth of data that HTSi offers delivers valuable information about true performance - the first step to improvement.

> *It has been well acknowledged that surveillance systems are only as good as their population coverage. Due to the extensive global coverage of HTSi, the HTSi database represents a unique and comprehensive source of data that can be used to monitor intestinal health and performance in commercial poultry flocks.*
>
> Alexandra L. Swirski *et al.*, Novometrix Research Inc.[2]

Meaningful benchmarking

Using industry-wide data that can be carefully selected to have the most geographical, economic and production method relevance, performance can be analysed at any level - from whole company, down to individual farm. This flexibility of analysis allows you to gain contextual information about performance, to better understand the bigger picture and where you fit into it.

Trend recognition

Ongoing monitoring helps you understand the relevance of any apparent emerging trends and identify ones that perhaps have not manifested themselves overtly yet, allowing earlier intervention and reduced losses.

Identifying Opportunities

The insight offered by HTSi, including the bespoke Intestinal Integrity (I^2) index, helps identify specific areas for improvement. This allows targeted intervention, to achieve better productivity.

'Yield gaps'

The difference in the demonstrated potential of current genetics and technology, and what is achieved in the field can vary dramatically between companies and even individual farms.

> *The I^2 index, combined with information contained in the HTSi database, could be used to identify these yield gaps in production and suggest possible interventions to close these gaps.*
>
> Alexandra L. Swirski *et al.*, Novometrix Research Inc.[2]

Looking Ahead

HTSi doesn't just help in the here and now - it has huge value for future planning too.

Proactive intervention

Historical and emerging trend data can help identify and understand current challenges and seasonal trends, allowing planned and considered pre-emptive action to be taken to prevent losses.

Mitigating risk

With the wealth of data available, predictive modelling can be applied to assess the scale of any identified productivity risks, as well as the cost-benefit of proposed interventions.

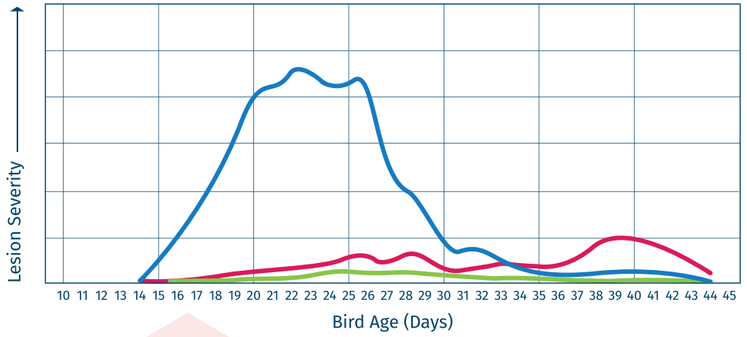
Productivity Risk Example: Coccidiosis Management

A key assessment point of HTSi (as part of the I^2 index) is coccidiosis, allowing producers to understand where they may be able to improve their management of this hugely economically important condition.

£10,500,000,000

The impact of poor coccidiosis control costs approximately **£10.5 billion per year worldwide**[1]

HTSi data showing prevalence of coccidiosis species at different bird ages:



Good coccidiosis management...

can **reduce antibiotic usage** by up to **x5**[3,4]

saves up to **6% feed, 6% water, 6% space**[5]