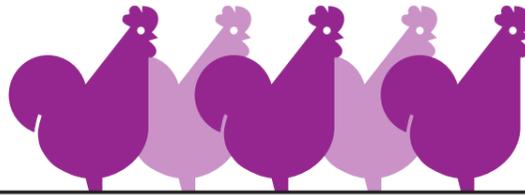


# GAIN MORE VALUE WITH OPTIMIZED WATER HYGIENE!\*

Full-service, automated drinking water hygiene by Evonik



- +** Increased live weight
- +** Improved uniformity
- Lower losses



**= Stabilized fattening process**  
**= Up to EUR 1,100 added value per fattening period**

**Check your potential now!**  
**FREE TRIAL RUN** for one fattening period!

Contact  
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Scan the QR code for more information

## Prevent biofilm formation through a combination of dosing technology and digital monitoring

System solution components, all provided by Evonik



Dosing unit with filter, metering, pump and sensors injects oxidant and acid into drinker line



Gateway Siemens IoT2050 equipped with WiFi sends data to Siemens IoT cloud

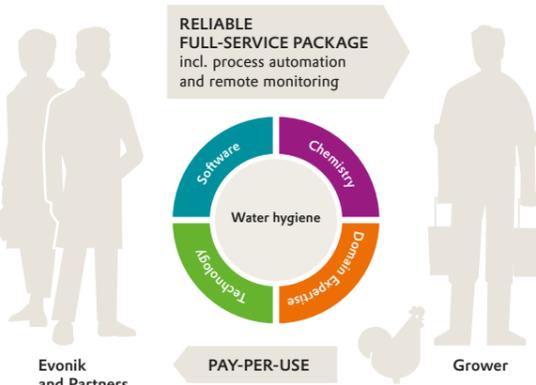


Biofilm formation is identified through visual inspection of a transparent tube

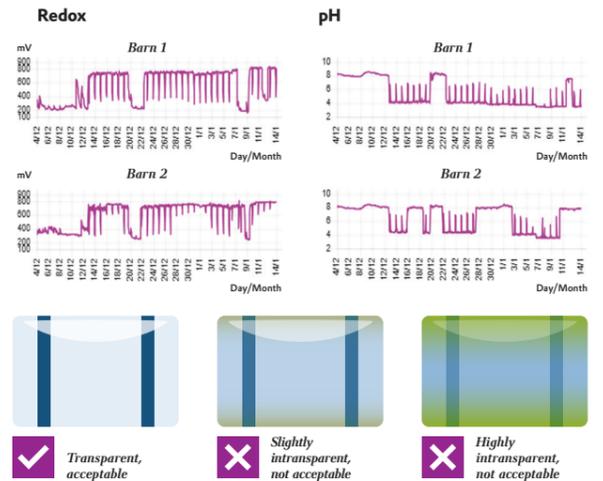


If necessary, turbidity and oxidant concentration are measured with a photospectrometer

Drinking water hygiene as a full-service offering

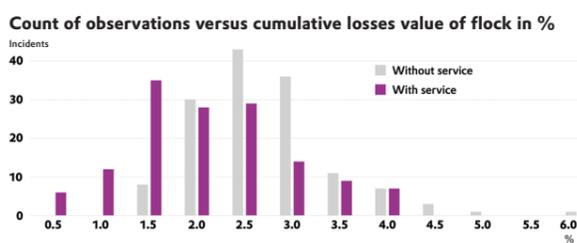


Redox/pH measurement and visual inspection ensures target value compliance

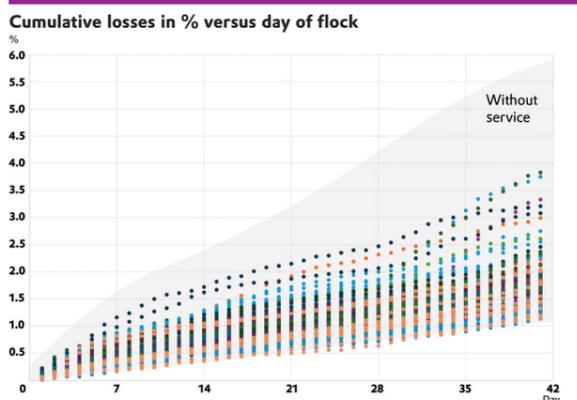


## Considerations for added value per fattening period through the use of Evonik's full-service package

### Frequency distribution of losses



### Losses over time



### Data for 14 periods without service and with service, 10 barns per period

**Animal number and live weight**  
 30,000 Birds per fattening period and barn  
 • 10,000 birds pre-catch 2.0kg/bird = 20,000 kg  
 • 20,000 birds main-catch 2.5kg/bird = 50,000 kg  
**In total 70,000 kg per fattening period**

**Advantage: Lower losses**  
 • Delta 0.59% or 0.0059 x 70,000 kg = 413 kg  
 x 1.1 EUR/kg = **454 EUR**

**Disadvantage: More Feed**  
 • Delta -0.004g feed per live weight x 70,000 kg  
 > 0,280 t feed x 400 EUR/t = **-112 EUR**

**Advantage: Increased live weight**  
 • Delta 23g per bird  
 x 30,000 birds (in pre-/main-catch) > 690 kg  
 x 1.1 EUR/kg = **759 EUR**

**Overall**  
 Added value per fattening period in total ~ **1,100 EUR**  
 + Reduced value distribution and reduction in extreme losses  
 + Lower costs for maintaining animal health and welfare  
 + Reduced susceptibility to epidemics that spread in the fattening area and lead to mast failures or spoilage of carcasses on neighbouring farms

### Added value

KPI	Unit	Analysis			Added value EUR per fattening period
		Without service	With service	Difference	
Losses	%	2.46 ± 0.34	1.87 ± 0.45	<b>0.59</b>	<b>454</b>
Feed conversion rate	g/g	1.524 ± 0.019	1.528 ± 0.013	<b>-0.004</b>	<b>-112</b>
Ø Weight chicken	g	2,613 ± 65.11	2,636 ± 96.22	<b>-23</b>	<b>759</b>
<b>Total</b>					<b>1,101</b>

### Losses %

