

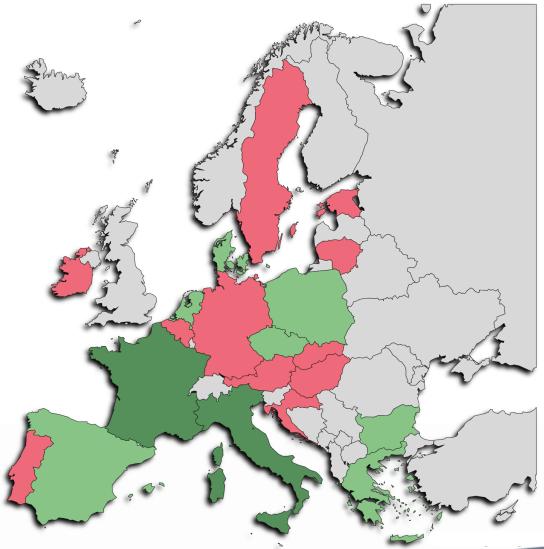
Regulatory update on nextgen probiotics development

The Hague, April 2024

www.sandwalkbio.com

Number of countries allowing *probiotic* on labels has dramatically increased since 2021







EU authorities seem to be talking more about probiotics

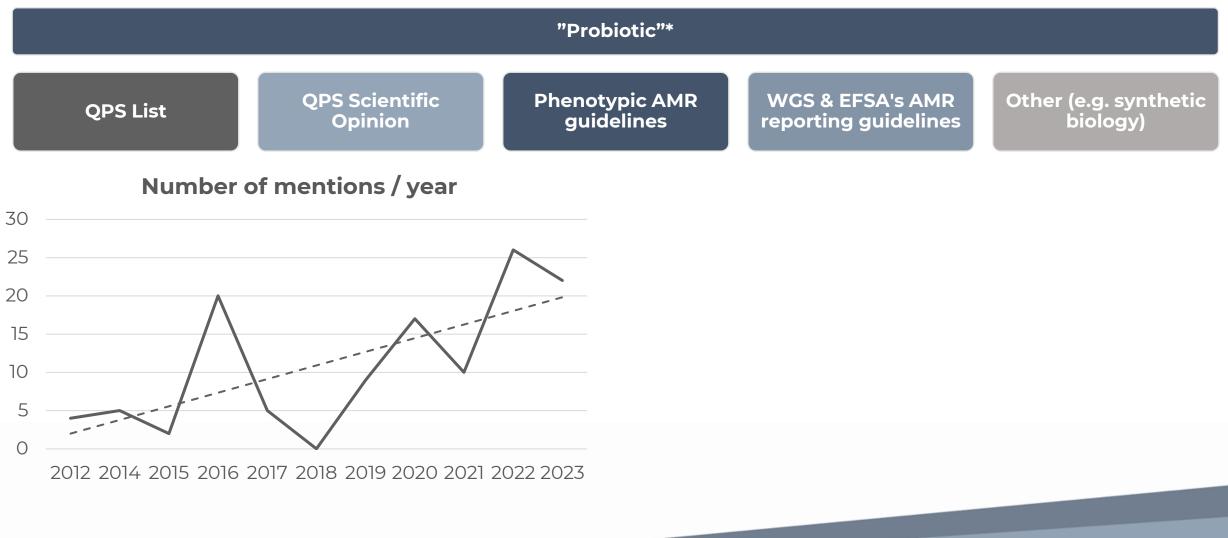


"Probiotic"*				
QPS List	QPS Scientific Opinion	Phenotypic AMR guidelines	WGS & EFSA's AMR reporting guidelines	Other (e.g. synthetic biology)

*Excluding references within those documents

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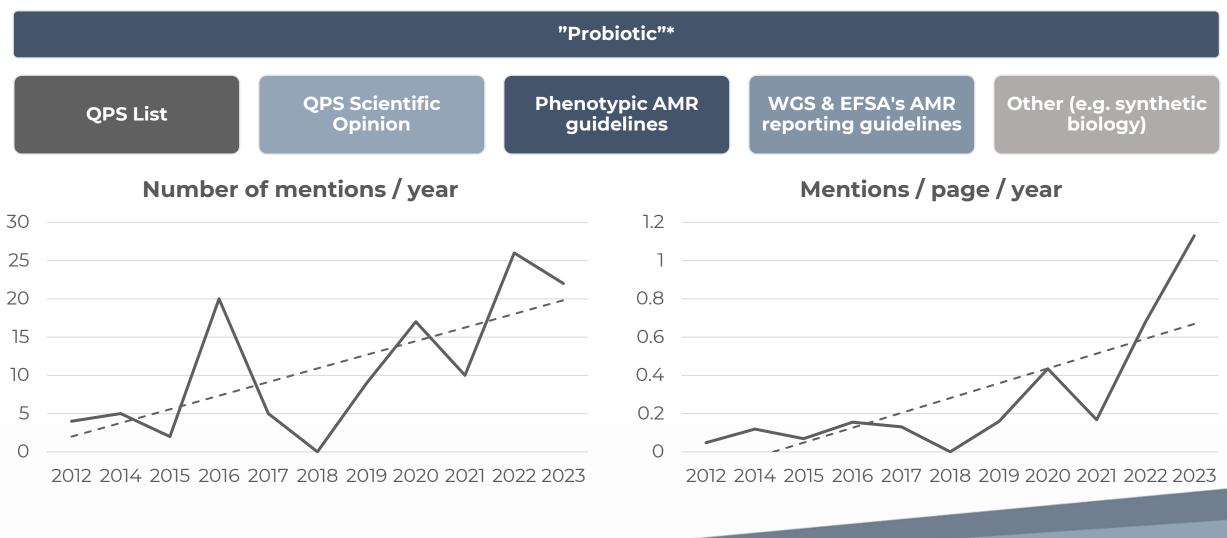




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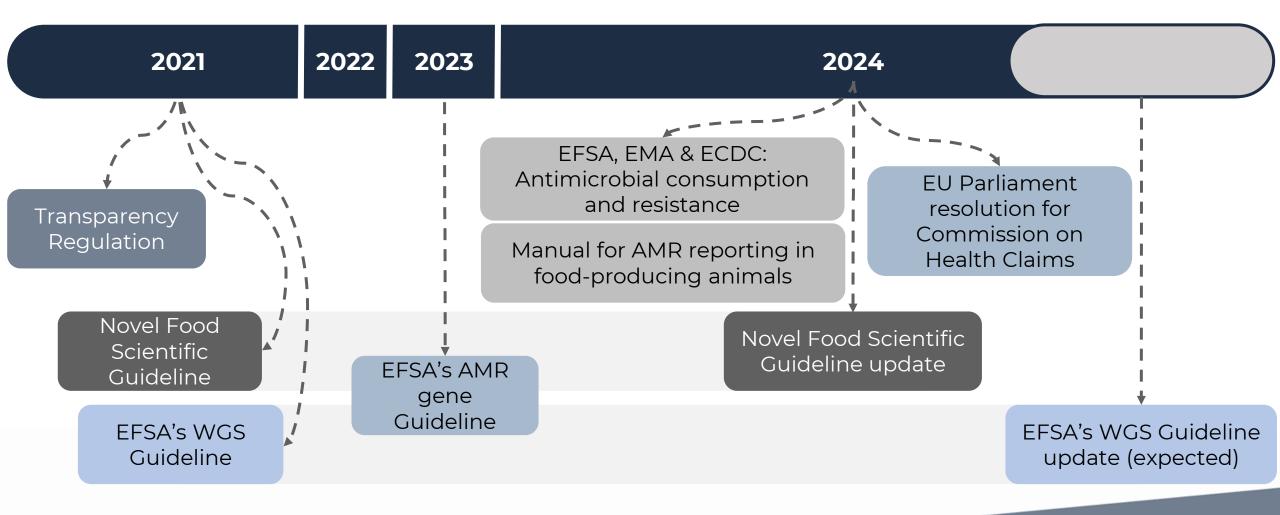
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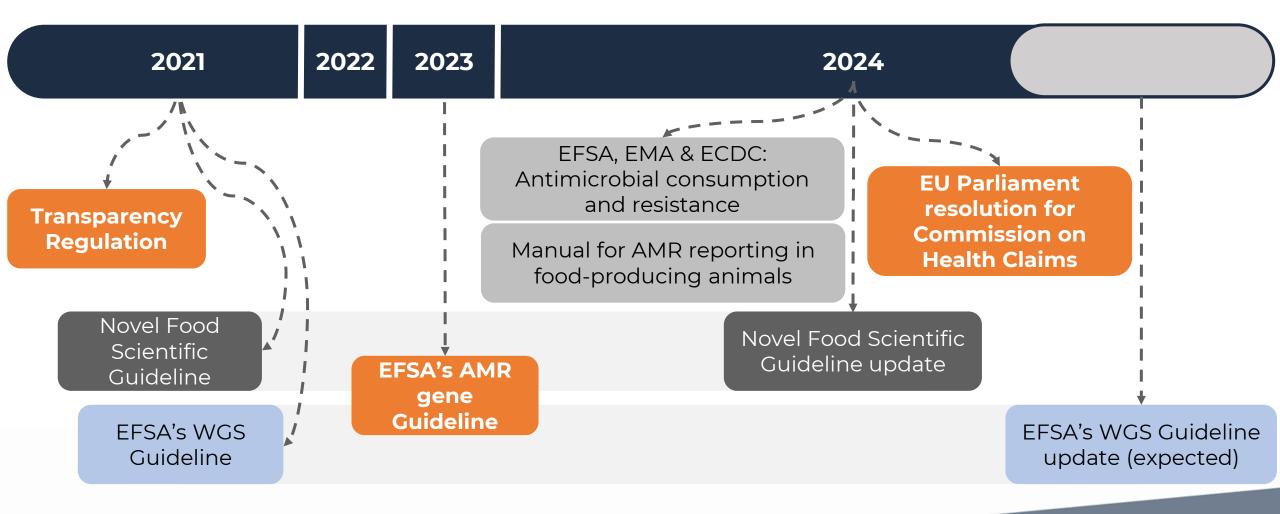


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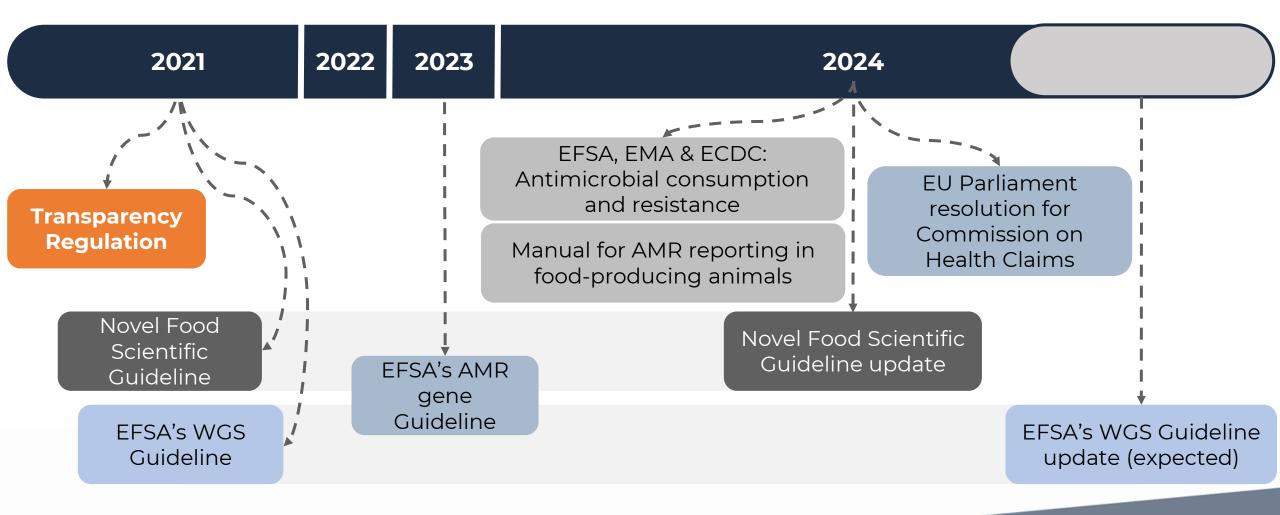










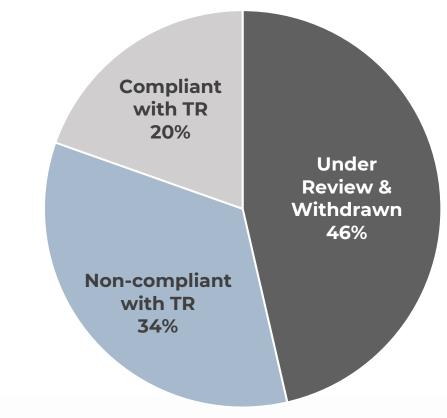


Over 60% of the new Novel Food applications are SANDWALK non-compliant with the Transparency Regulation

- Foods or ingredients not present in the EU before 1997 mostly fall within the scope of Novel Foods → Market authorization required
- Case-by-case determination → Most (*all*) next-generation probiotics (novel taxonomies)
- Regulation 2019/1381 (*Transparency Regulation*) became applicable on March 27th, 2021
- It forces developers to <u>notify studies to EFSA before</u> they are initiated
- Non-compliance involves a 6-month time penalty in the NF process

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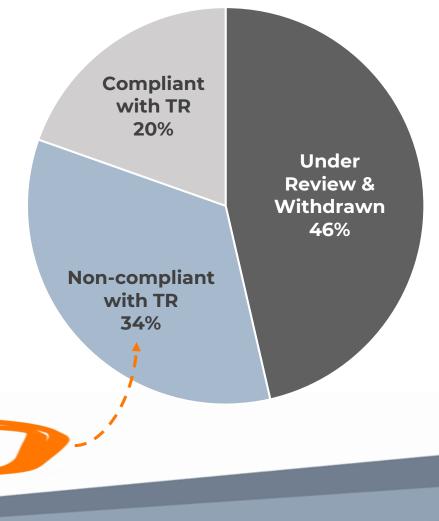
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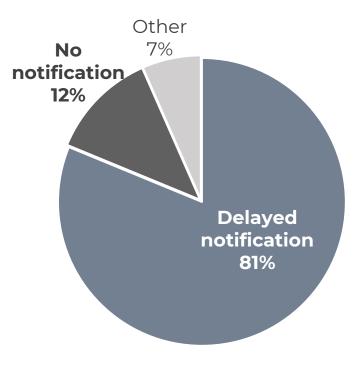
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This is 60%+ of processed applications!



Transparency Regulation: Reasons for non-compliance

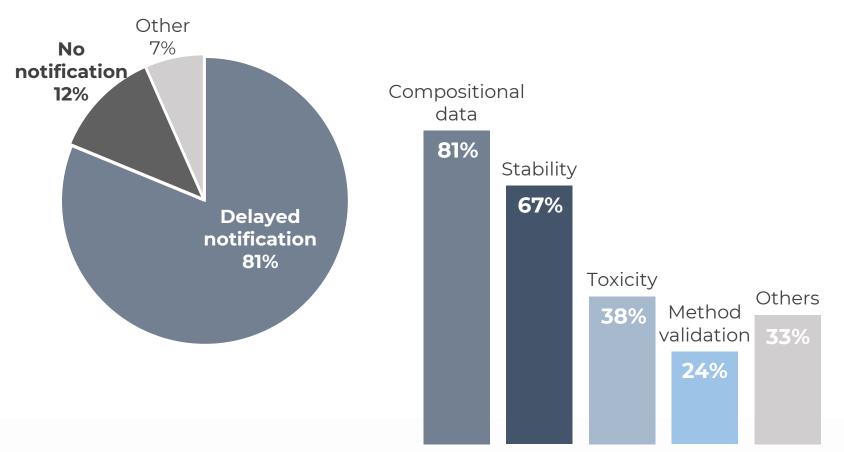




*Stats performed using publicly available data

SANDWALK Bioventures

Transparency Regulation: Reasons for non-compliance

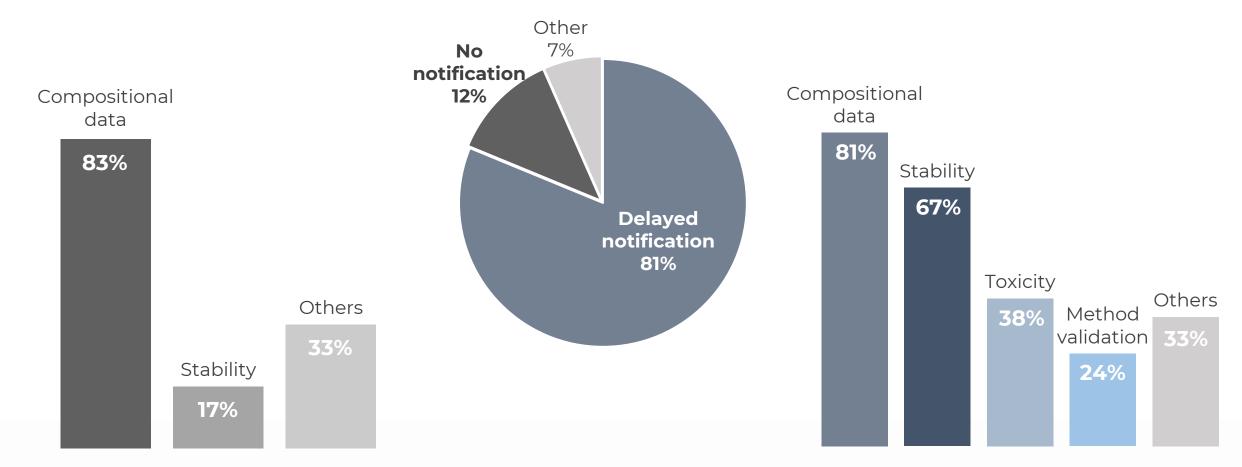


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**Figures over 100% because multiple applications have several reasons for non compliance

Transparency Regulation: Reasons for non-compliance

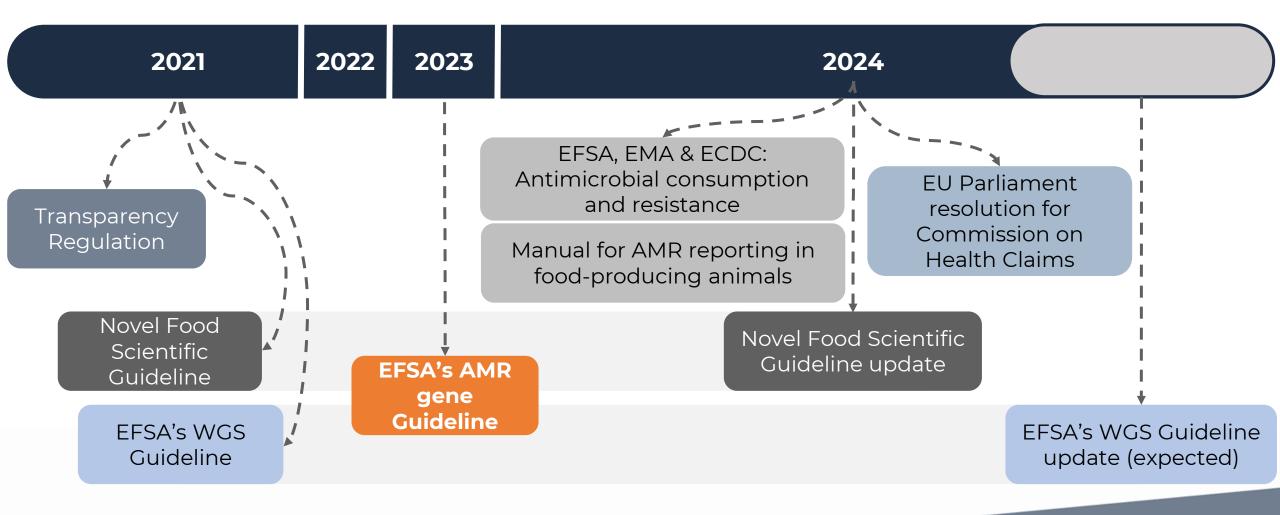




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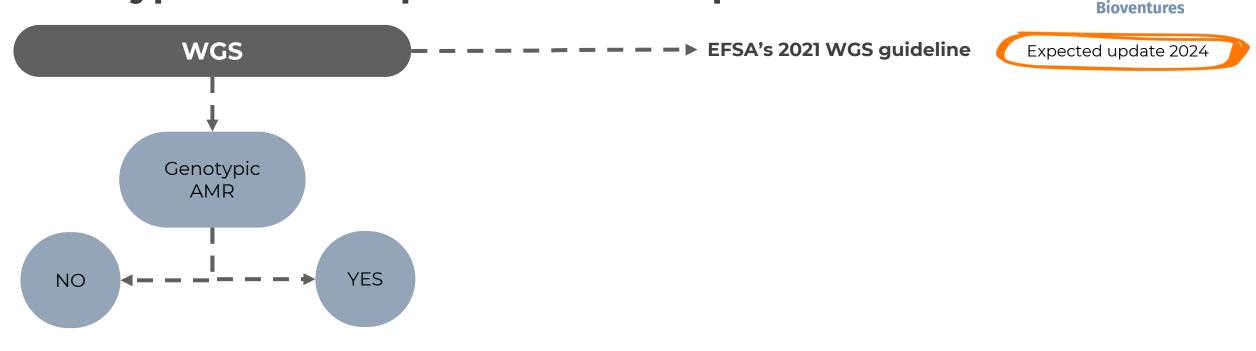




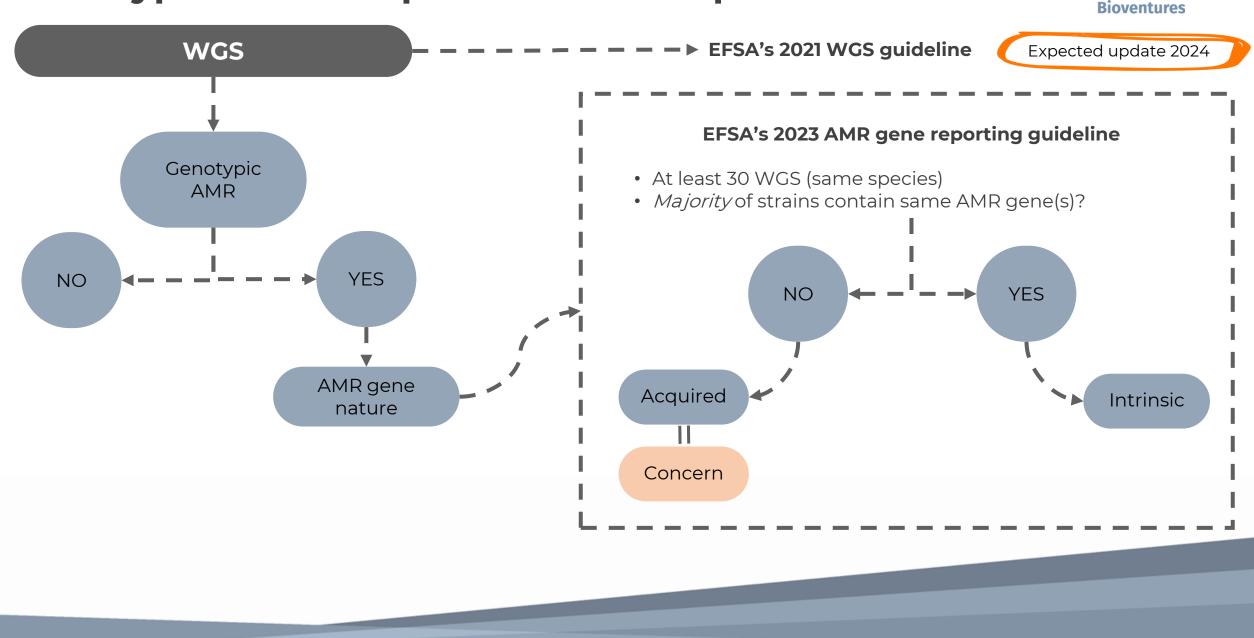
WGS

— — → ► EFSA's 2021 WGS guideline

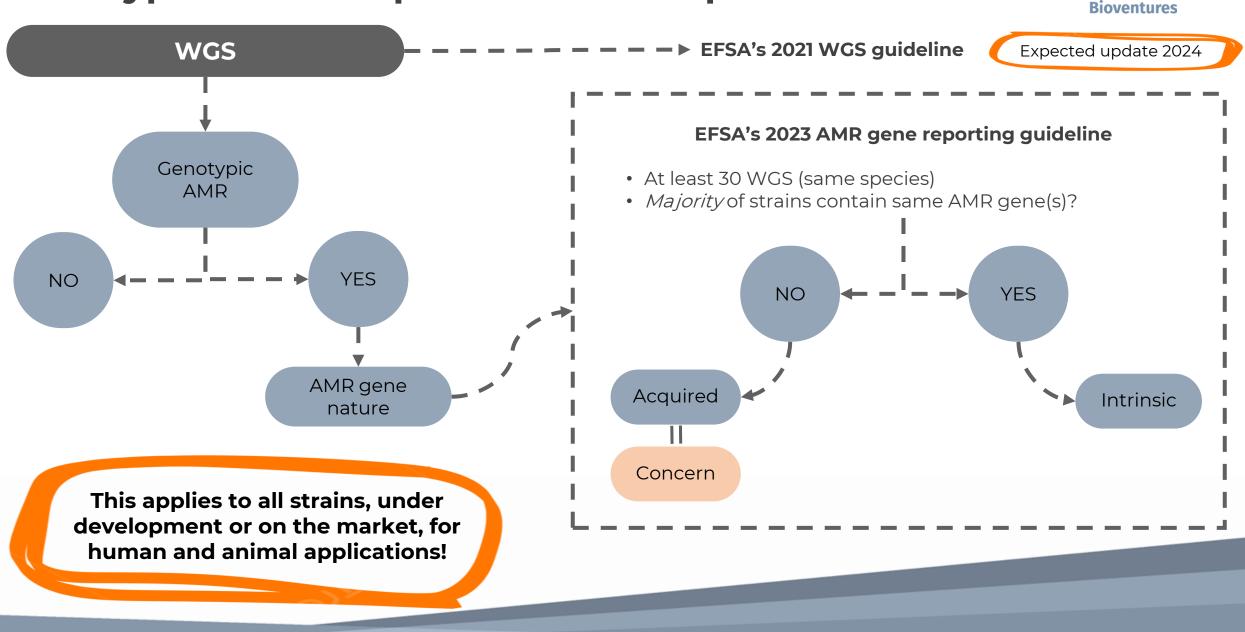
Expected update 2024



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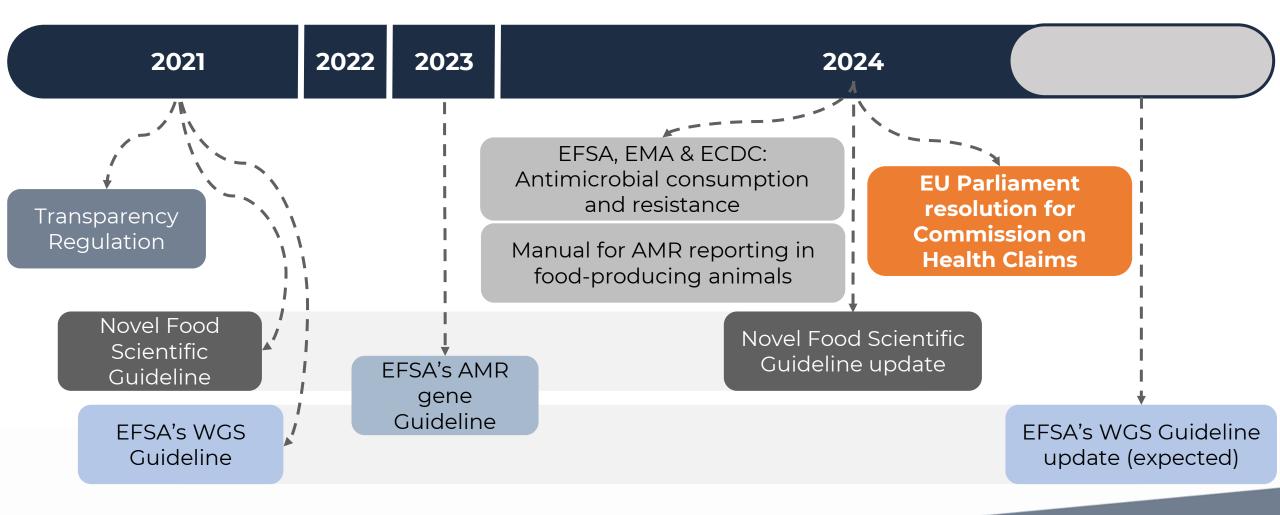


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Regulations on communication and health claims under development and review



The **European Commission** and many national authorities are implementing online content screening to identify testimonials and endorsements that mislead consumers.

Sweden Ireland Spain Italy Denmark Poland Latvia Germany Romania Norway 66% of investigated non-compliant Penalties up to 2 years in prison and fines of up to €300,000 France

Focus includes food supplements

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On 18th January 2024, the European Parliament published a resolution on the implementation of Regulation 1924/2006 on nutrition and health claims urging on the European Commission to:

- Review the regulatory framework
- Harmonize
- Enforce the Regulation
- Re-assess the nutritional status of Europeans to re-consider authorized health claims
- Assess *on hold* claims for botanicals

Take-home messages



EU and national authorities seem to be taking probiotics more seriously



Regulation is becoming more stringent, and relevant updates have been frequent recently – more expected

Three main challenges:

- **Transparency Regulation**, which forces developers to notify many steps of strain development <u>before</u> they are initiated
- AMR gene guideline, which:
 - Forces developers to check for AMR genes in at least 30 additional strains
 - May leave out many strains out of the market due to *acquired* AMR gene presence
- Health claims revisitation, which may make it more difficult to make indirect health claims

SANDWALK Bioventures

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