



# The monitoring programme for food additives in Germany

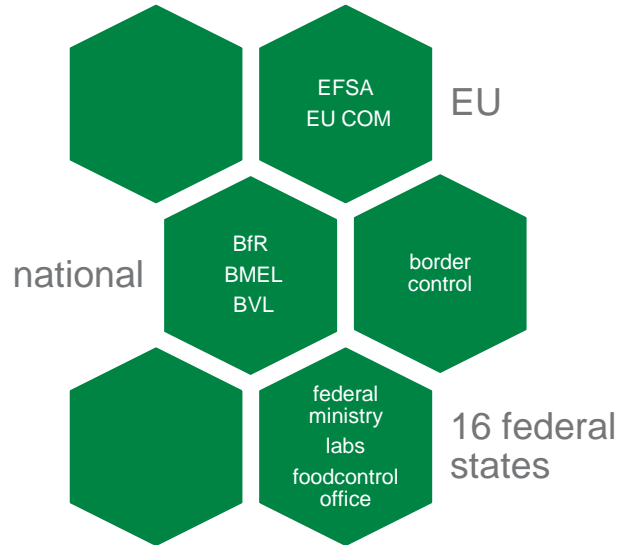
## The pilot phase in Saxony

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# Introduction

## Official control of foodstuffs in Germany



### → LUA Sachsen

official lab

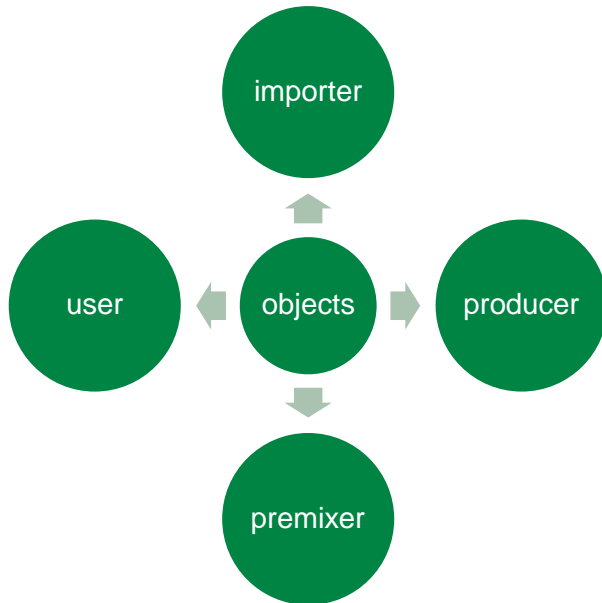
about 20.000 food samples per year

about 5.000 FA-analyses per year covering about 30-50 FAs

about 100 samples of FAs in pure form or premixes

# Introduction

## Generation of data in combination with official controls



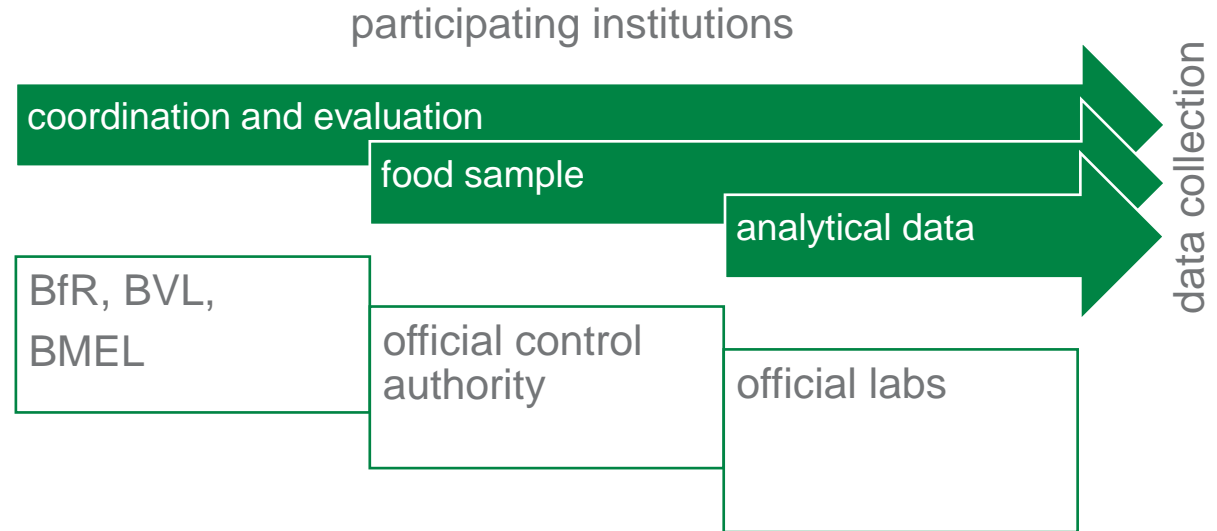
annual planning of  
sampling with explicit  
sample request +  
official controls

- analytical data  
→ LIMS
- labelling data
- formulation / recipe
- specification / CoA

# Pilot phase in Germany

## 2023 sweeteners in fermented milk products

- period of 6 months
- query in advance about availability of analytical methods
- providing a „shopping list“



# Pilot phase in Germany

## 2023 sweeteners in fermented milk products – results

### Facts

- expert group
- Bund ← → Länder ← → NRL
- few samples and a great variety of analytical data
- limit of detection / quantification

### Problems

- market availability / relevance
- rapid market development
- (additional) data transfer via Excel



experience → transfer to 2024

Probennr.	Angabe aller im Produkt enthaltenen Süßungsmittel (E-Nummern; deklariert)	Fettgehalt im Milchanteil (deklariert) [%]	Produkt-Marke	Produkt-Bezeichnung	Geschmacksrichtung	Einkaufsstätte (Hersteller / Einzelhandel)	Handelskettename / Unternehmen	Identitätskennzeichen
2023-12345	E951; E950; E954	1,5	Milbona	Diät Joghurt	Erdbeer	Einzelhandel	Lidl	DE NW 508 EG
2023-12346	E950; E954	0,1	Bauer	Extra Leicht	Zitrone	Hersteller	Bauer	DE BY 000 EG
2023-12347	E950	0,4	Crane	High Protein	Heidelbeere	Einzelhandel	Aldi Süd	DE BW 010 EG

# Pilot phase in Germany

## 2024 dyes in non-alcoholic beverages

- fix EU-analytes: E 102, E 124, E 142 → query in advance of availability of methods / market
- focus: close the lack of data for mainly one representative food category
- annual planning of sampling with explicit sample request (base shopping list)
- data submission: analytical data via interface
  - optional additional: presence data + trade chain and/or brand

320000	Alkoholfreie Getränke	LUA-Vorgabe	LFGB Planprobe	1-2 L / Erfrischungsgetränke mit Tartrazin E102 (wahrscheinlich Brausen, Energy, Bubble Tees, etc.) / PRODUKTVORSCHLÄGE SIEHE ANLAGE BfR Einkaufsvorschlag	6
320000	Alkoholfreie Getränke	LUA-Vorgabe	LFGB Planprobe	1-2 L / Erfrischungsgetränke mit Grün S E142 (wahrscheinlich Brausen, Energy, Bubble Tees, etc.) / PRODUKTVORSCHLÄGE SIEHE ANLAGE BfR Einkaufsvorschlag	4
320000	Alkoholfreie Getränke	LUA-Vorgabe	LFGB Planprobe	1-2 L / Erfrischungsgetränke mit Cochenillerot A E124 (wahrscheinlich Brausen, Energy, Bubble Tees, etc.) / PRODUKTVORSCHLÄGE SIEHE ANLAGE BfR Einkaufsvorschlag	4

# Pilot phase in Germany

## 2024 dyes in non-alcoholic beverages – first results

### First facts

- Bund ← → Länder ← → NRL
- only few samples available
  - repeated sample request
  - data for E 142 ?
- waiver of submission brand

### First (repeating) problems

- market availability / relevance (esp. E 142)
- rapid market development
- (additional) data transfer
- methods

...further results remain to be seen



# Pilot phase in Germany

## 2025 BHT and sorbic acid

- fix EU-analytes: E 321, E 200-202 → query in advance of availability of methods / market
- analyte-matrix-combination for annual planning
  - suggestion: E 321 chewing gum (or fats/oils)  
E 200 surface meat preparation (or dessert)
- focus: using uniform methods (NRL)
- new challenge: automatically data exchange of LIMS Länder to BVL (AVV DatA)
  - analytical data + presence data + place of sampling/trade chain



[www.bmel.de](http://www.bmel.de)



# Conclusion and next steps

## FA monitoring ... to be continued

- open communication esp. to official control authority (special sample request)
- market relevance of analyte-matrix-combinations (alternatives)
- new available and practical methods (NRL)
- easy data transfer (interface)
  
- clear guidelines from the EU
- involving alternative institutions for delivery of data



# Thank you for your attention!

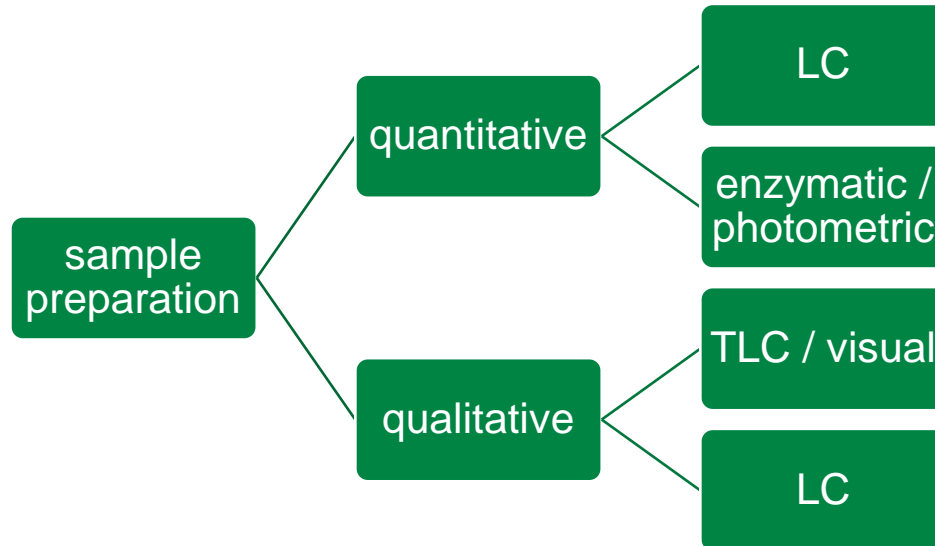


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# Common use FAs

## Chemical analysis



- dyes
  - synthetic
  - natural
  - illegal
- preservatives
  - sorbic / benzoic acid
  - nitrites / nitrates
- sweeteners

# Common use FAs

## Chemical analysis and their problems

- sample preparation – matrix
- quantitative extraction without loss or damage of analyte
- natural sources – identification, differentiation, correlation
- lack of standards
- available and workable methods



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UND VETERINÄRWESEN



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