



Data collection by public bodies: Joint EFSA-Member State activities

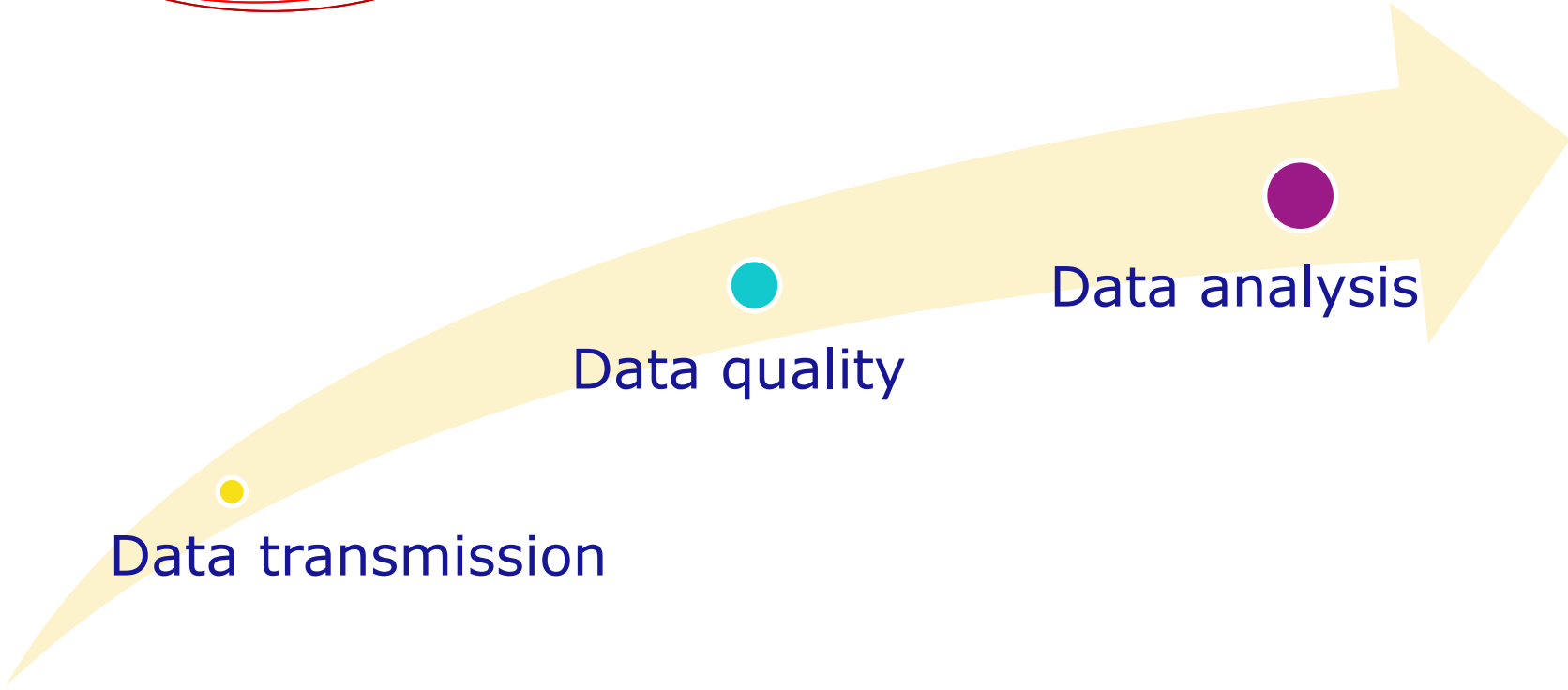
Leif Busk, National Food Agency, Uppsala, Sweden

Stefano Cappè, Evidence Management Unit, EFSA

EFSA Expo Conference - 15 October 2015



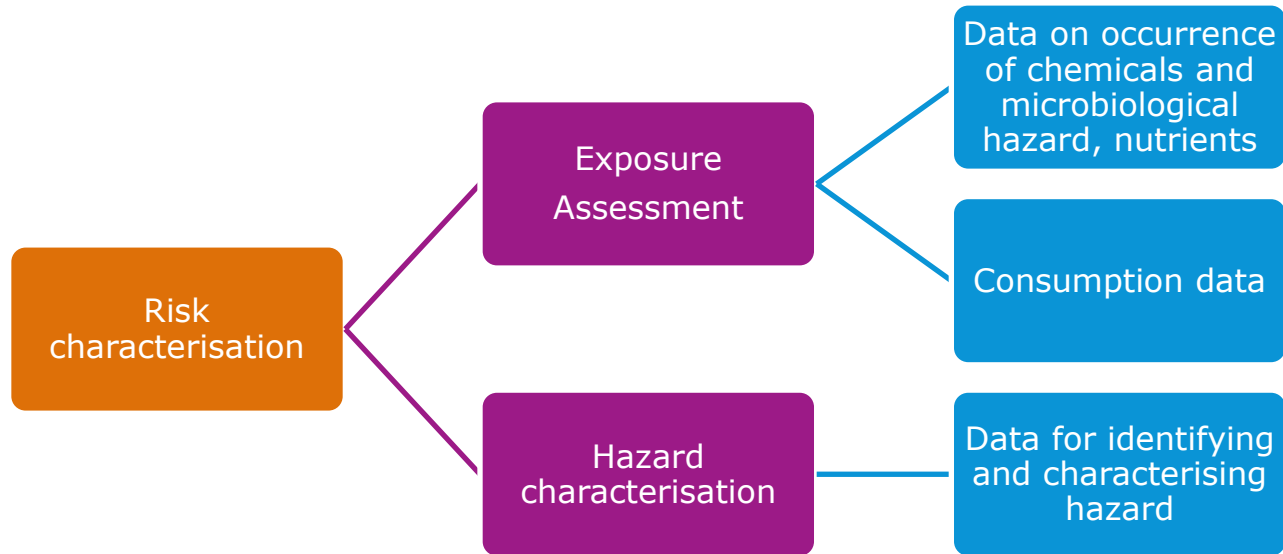
Data management





EFSA Risk assessment

EFSA opinions



DATA COLLECTION

Who are involved?

- EFSA, Evidence Management Unit
- Advisory Forum
- Focal Points
- Scientific Networks
 - BSE-TSE
 - Zoonoses
 - Microbiological Risk Assessment
 - Chemical Occurrence Data
 - Pesticide Monitoring
 - Food Consumption Data



Data collection

EFSA has no laboratories



The Laboratories in the Member States are EFSA's Laboratories

Background

Regulation (Ec) No 178/2002 – Article 33

The MSs shall take the necessary measures to enable the data they collect in the fields of EFSA be transmitted to the Authority

Data Collection

EFSA forward to Member States and EC appropriate recommendations which might improve the technical comparability of the data

Data harmonisation





Appropriate recommendations

Standardisation/Harmonisation

Standard
Sample
Description

Standard
Terminologies

Pesticide
residues

Chemical
contaminants

...

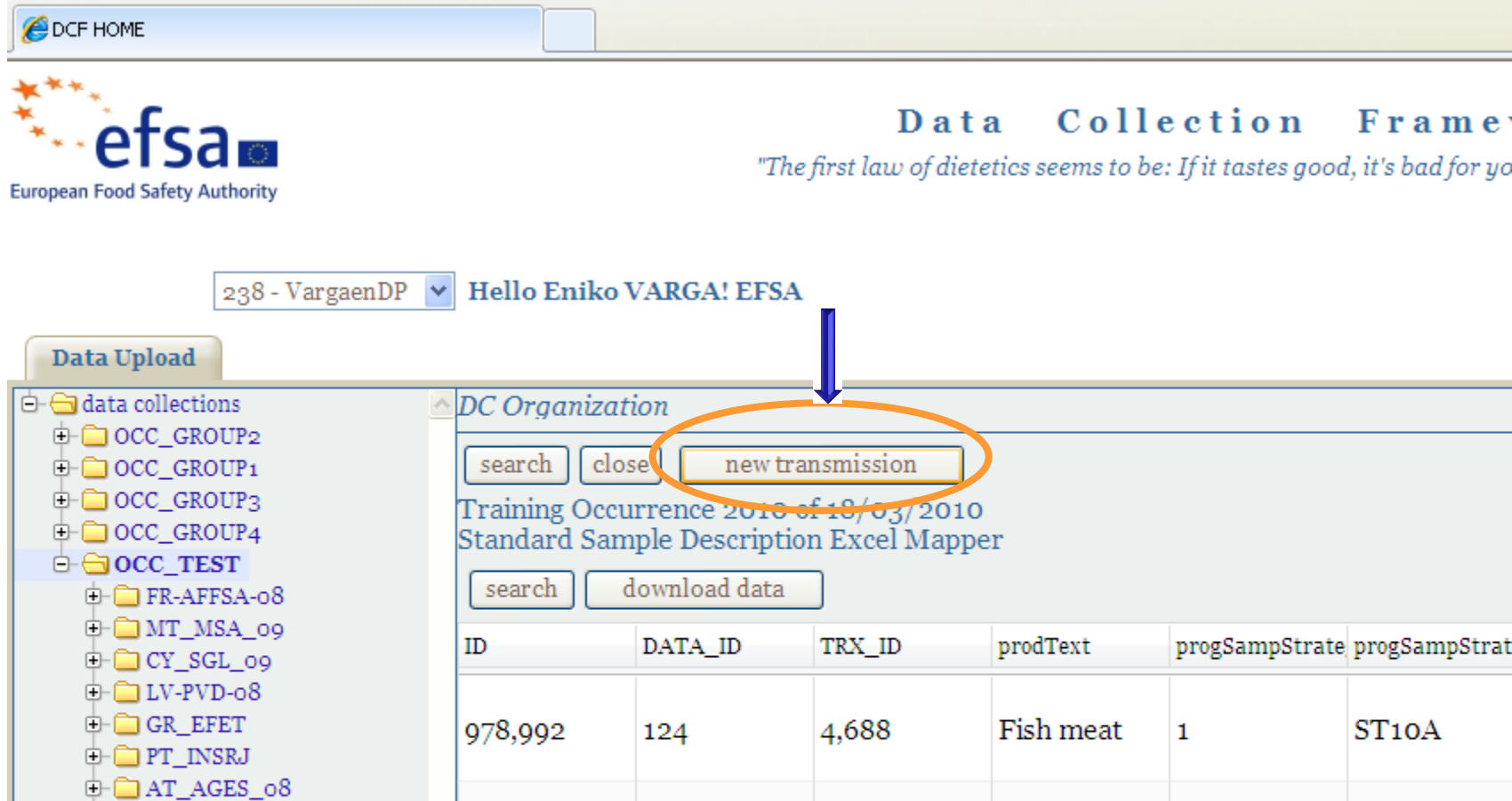
Parameters
of analysis

FoodEx2

...

Tools for data collection

Use the Data Collection Framework (DCF) to allow Data Providers to transmit and validate data:



DCF HOME

efsa
European Food Safety Authority

Data Collection Framework
"The first law of dietetics seems to be: If it tastes good, it's bad for you"

238 - VargaenDP Hello Eniko VARGA! EFSA

Data Upload

DC Organization

search close new transmission

Training Occurrence 2010 of 18/03/2010
Standard Sample Description Excel Mapper

search download data

ID	DATA_ID	TRX_ID	prodText	progSampStrate	progSampStrat
978,992	124	4,688	Fish meat	1	ST10A



Validation and automatic feedback

DCF provides an automatic feedback to data providers:

Standard Sample Description Acknowledgment

Header

Type	dcfmsg
Version	1.0
Code	Example1.xls
Receiver's Code	EFSA
Sender's Code	EFSA
Sent date	2011-11-30T12:16:37.505

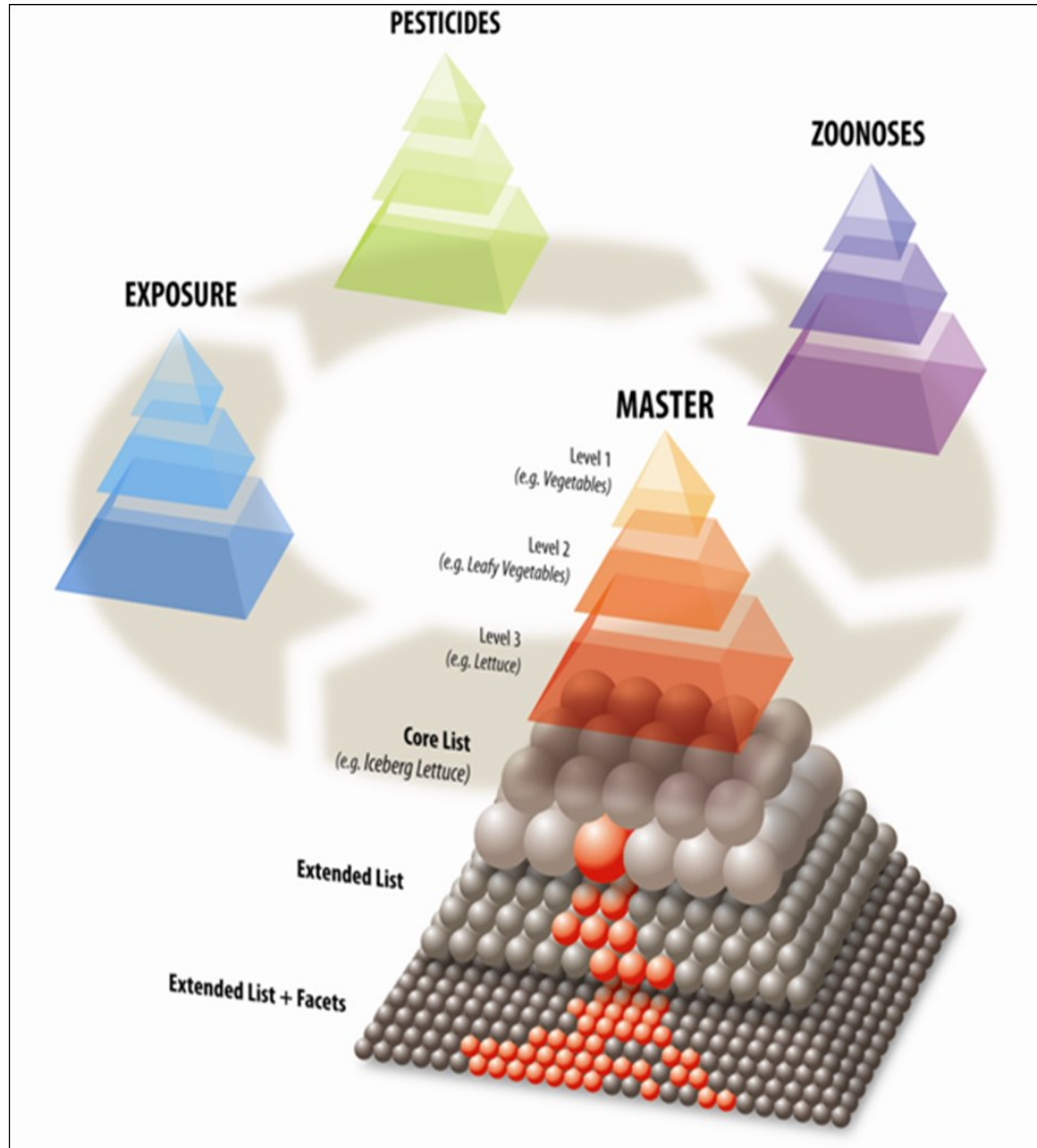
Message

Message Receive Date	2011-11-30T12:18:48.146+01:00
Message Ack Date	2011-11-30T12:18:48.146+01:00
Transmission Ack Code	02
Sender's Transaction Code	Example1.xls
Receiver's Transaction Code	7081
Data Collection Code	OCC_TEST
Data Collection Name	OCC_TEST

Errors Details

Type	Rule code	Error code	Error Description	Variables	Example
E	INSERT_FAIL	INSERT_FAIL	5 rows of the file : Example1.xls were not inserted (7081/8417)		
E	BR03A	ER14B	The result LOD must be less than the LOQ	resLOD\$<=\$resLOQ	1\$<=\$.8
E	BR03A	ES28B	Sample year cannot be greater than the analysis year	sampY\$<=\$analysisY	2011\$<=\$2010
			Parameter text should be completed if		SRF-XXXX-XXX-

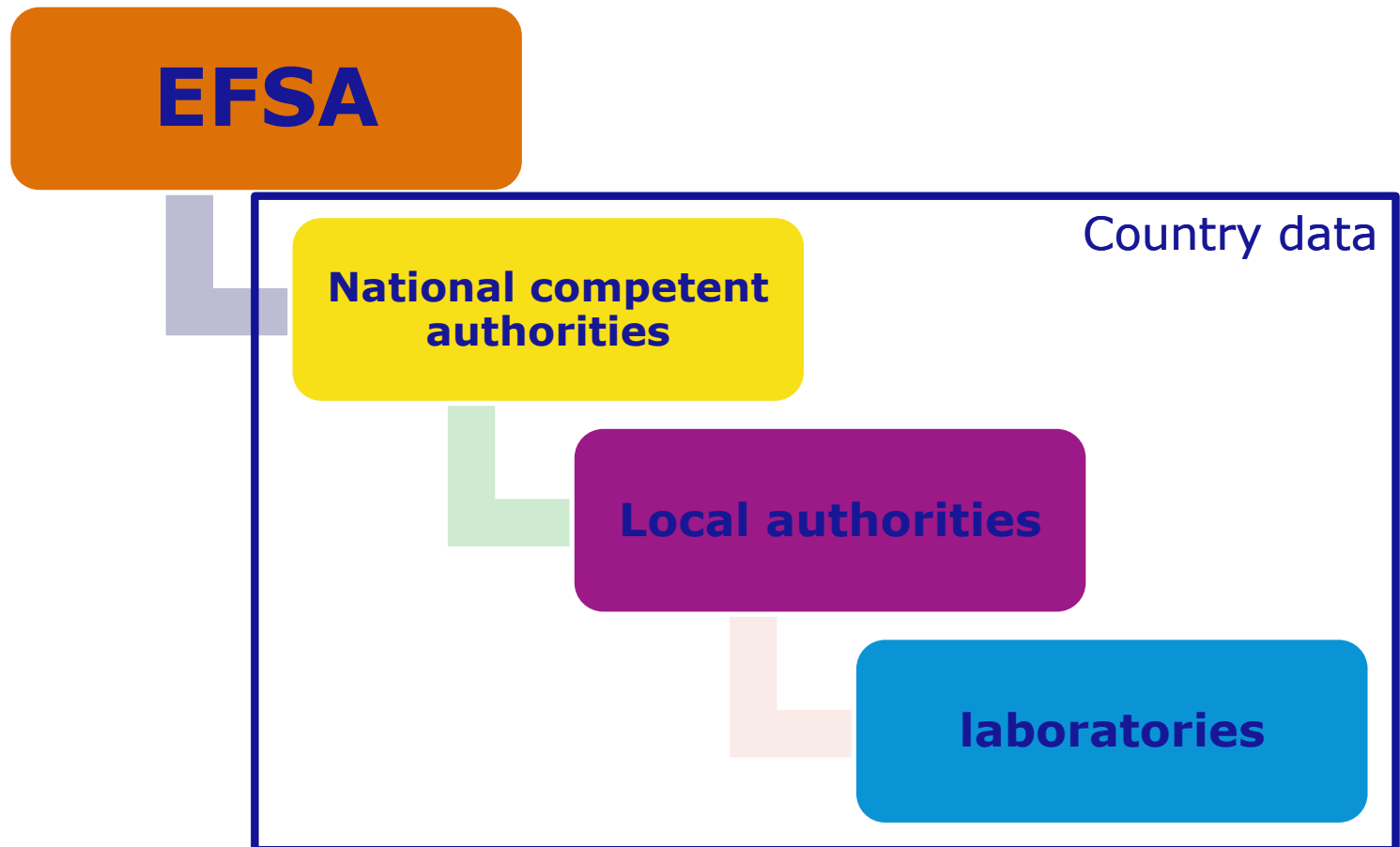
Tools for standard terminologies - FoodEx and FoodEx browser





Harmonisation influence

Standardisation of data reporting is across different domains and the entire data collection chain



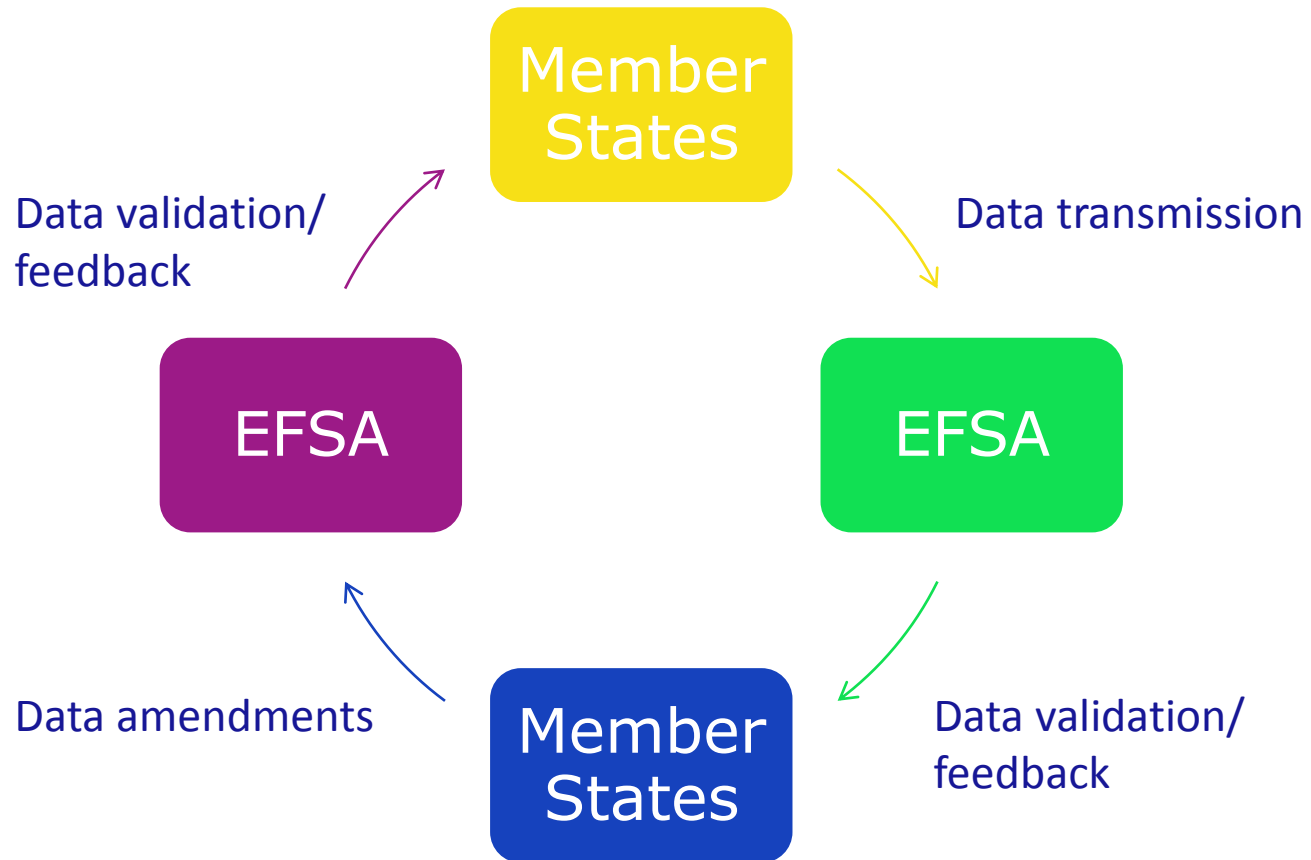


Data management





Data validation

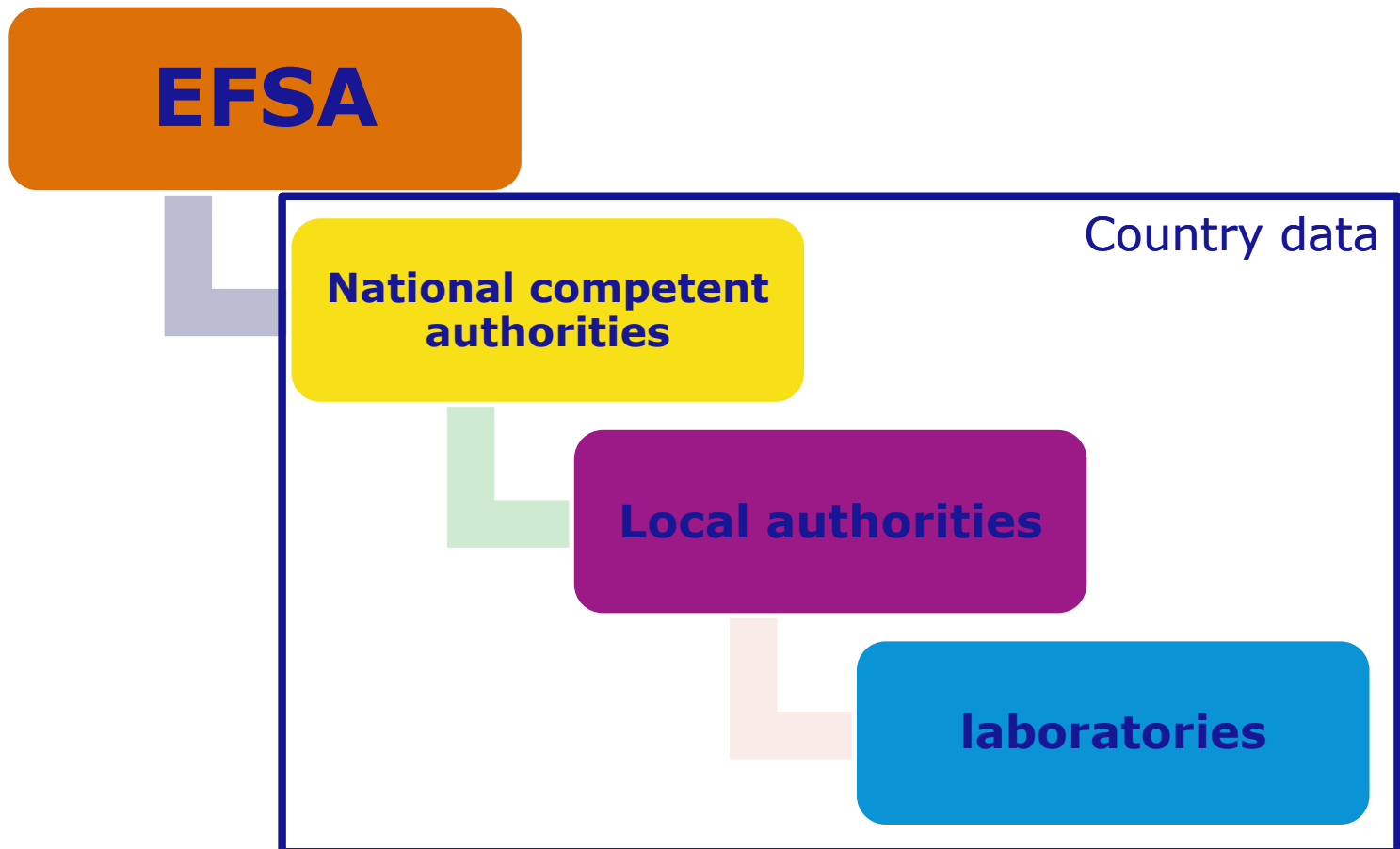


Joint iterative data quality assurance process



Data quality

Data quality is an issues across different domains and the entire data collection chain



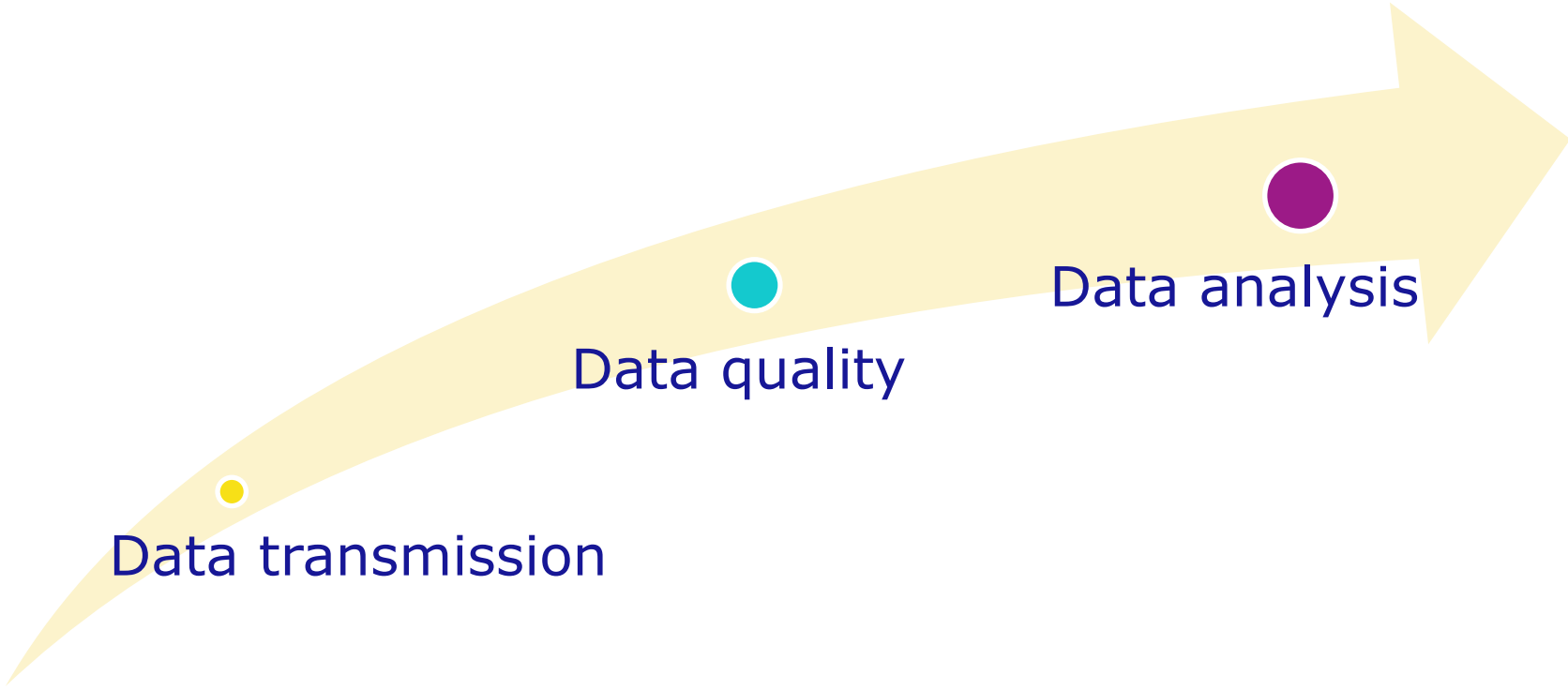
Data quality

- Exploiting the data will increase the demand of high quality data
 - Gain efficiency in all steps of data collection chain
- Data quality is win-win deal both for data providers and receivers





Data management





Data domains

Consumption

- Consumption data
- Comprehensive Food Consumption
 - EUMenu

Chemicals

- Standard Sample Description
- Chemical contaminants
 - Pesticide residues
 - Additives occurrence

Zoonoses

Prevalence

Antimicrobial resistance

Food borne outbreaks

Animal disease

Animal population

Chemical hazard

Toxicological data from EFSA opinions

Currently stored in data warehouse

Data warehouse access

Simplifying:

Specific differences exist in different data domains

EFSA and EC

- All raw data
- All data via aggregated dashboards or exports

WG and panel members

- Raw data: subset needed for the EFSA opinion, for the duration of the WG, panel
- Data via aggregated dashboards or exports

Data providers and reporting officers

- Access to raw data provided
- Raw data access from other organisation when bilateral or multilateral agreements exist (e.g. circle of trust)
- Data via aggregated dashboards or exports

Others

- All data via aggregated dashboards or exports



Scientific data warehouse

Open to new areas of collaboration in exploiting data

- Share Exposure Assessment
 - Increased workload – need to further share production of scientific opinions
 - Better use of specific competence in MS
- Beyond National Competent Authorities
 - Academia
 - Industry



Conclusions

Food safety data governance

Member States

European Commission

EFSA

Industries



How should we increase the efficient use of this refined machinery?



Thank you for your attention!

