



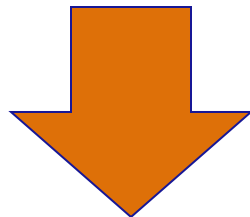
European Food Safety Authority

**Standard Sample Description for food
and feed: towards EU-wide
harmonization of data collection and
transmission**

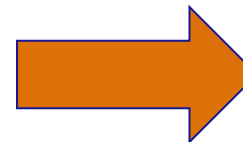
Sofia, Bulgaria, 14-15 May 2012

Before Standard Sample Description

- No official format specified
- Poor data quality
- Difficult to manage high volumes of data
- Different formats



Harmonised way to
collect data on
chemical contaminants
and residues needed



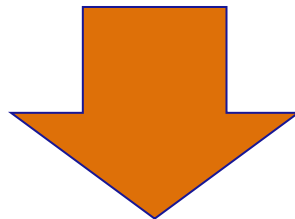
**Implementation
of a Standard**

Objectives of SSD:

- **Harmonising** chemical occurrence and pesticide residue data collection in the EU
- **Make efficient** the data transmission between Member States and EFSA
 - Optimising human resource employed
 - Quality of data transmitted
 - Capacity of managing high volumes of data
 - Capacity to analyse the data and to produce valuable reports for different stakeholders
 - Flexibility to meet needs of many data collections now and in the future

What is the Standard Sample Description (SSD) ?

- A *list of data elements* that are standardised and can be conveniently used by both data providers and data recipients to fully **describe** samples and analytical parameters for evaluation purposes.
- The SSD includes controlled terminologies and validation rules to guarantee data quality (in data export, transmission and storage).



- A model to *harmonise* the collection of a wide range of measurements in the area of food and feed safety assessment.

- Guidance on Standard Sample Description for food and feed:
<http://www.efsa.europa.eu/en/efsajournal/pub/1457.htm>

Specifications aimed at harmonising the collection from Member States of analytical measurement data for the presence of harmful or beneficial chemical substances in food, feed and water.

- Reviewed by networks end 2009; published Jan 2010
- Contains:
 1. Variables (sample description, laboratory, organisations, analytical result description)
 2. Catalogues: (Languages (ISO-639-1), Countries (ISO -3166-1-alpha-2), NUTS (Nomenclature des Unités Territoriales Statistiques) etc...

- *Guidance on Data Exchange:*
<http://www.efsa.europa.eu/de/efsajournal/pub/1895.htm>
 - Reviewed by network Sep 2009; Published Oct 2010
 - Complementary to the first guideline
 - Contains:
 - transmission mechanisms
 - File formats → XML schemas
 - Security requirements
 - Web services and FTP message exchange protocols (including validation messages) to be used for automatic exchange

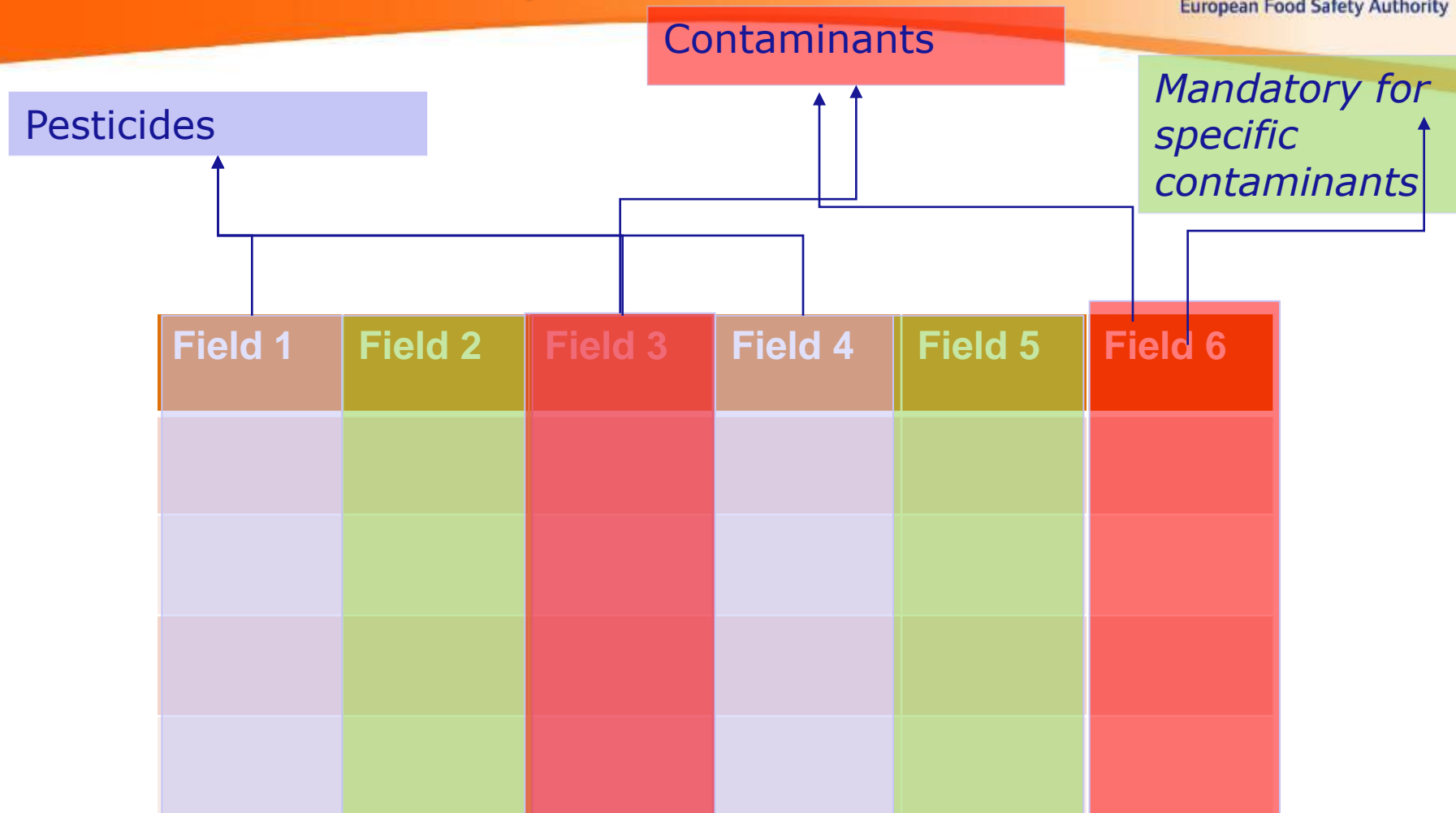
Format and requirements

- SSD is a generic format for all data collections on contaminants and pesticides
- SSD defines 76 elements from which aprox 20 are mandatory elements to enable a unique description of the sample
- Specific requirements maybe needed to cover specific risk assessment areas or contaminants group (additional mandatory fields for specific contaminants e.g analysed as pursached/consumed in furan)



➡ mandatory data elements (generic +specific) must always be completed!

Formats and requirements

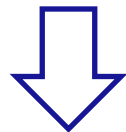


How to submit your data

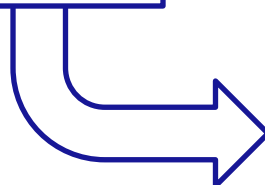
- The official file format for the Standard Sample Description is XML (eXtensible Markup Language)
- File in XML can be manually uploaded on the DCF or electronically transmitted to EFSA via FTP or SOAP protocols
- An Excel (R) simplified format is available to support member states not capable of submitting XML files (Not for article 36 applicants)

Example from Excel

	A	B	C
	labSampleCode	lang	sampCountry
1			
2	IT-2009-11-23-000001	en	IT
3	IT-2009-11-23-000001	en	IT
4	IT-2009-11-23-000002	en	IT
5	IT-2009-11-23-000002	en	IT
6	IT-2009-11-23-000002	en	IT
7	IT-2009-AD-000256	en	IT



Data are
transformed in
XML



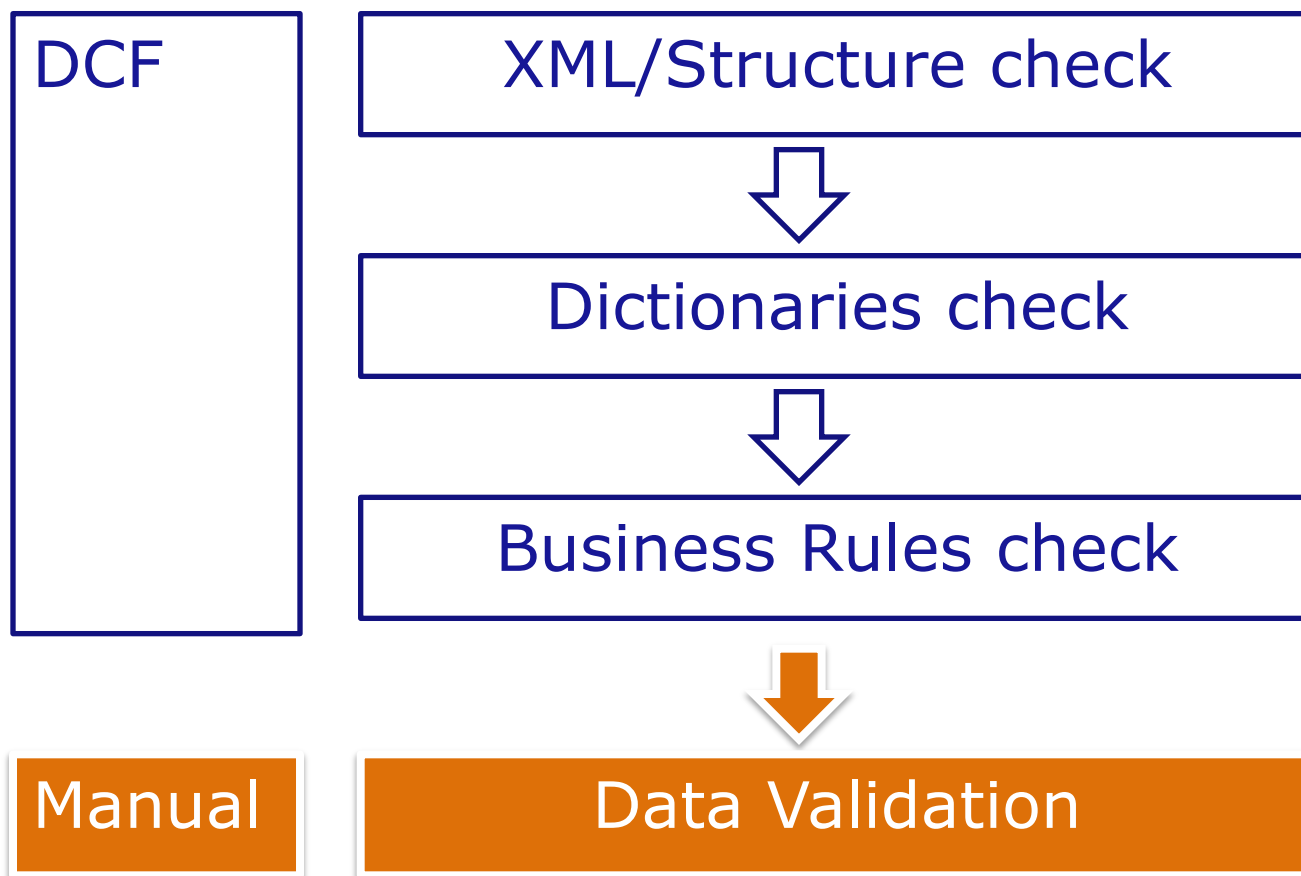
```
<?xml version="1.0" encoding="UTF-8"?>
<message xmlns:xs="http://www.w3.org/2001/XMLSchema" xmlns:xsi="
http://www.w3.org/2001/XMLSchema-instance"
xsi:noNamespaceSchemaLocation="StandardSampleDescription.xsd">
  <header>
    <type>dcfmsg</type>
    <version>0.41</version>
    <code>1</code>
    <receiverCode>EFSA</receiverCode>
    <senderCode>EFSA</senderCode>
    <sentDate>2010-01-27T22:40:27+01:00</sentDate>
  </header>
  <dataTrx opType="01" dcCode="OCC_TR2010">
    <dataset>
      <sample>
        <labSampCode>IT-2009-11-23-000001</labSampCode>
        <lang>en</lang>
        <sampCountry>IT</sampCountry>
        <sampArea>ITD52</sampArea>
        <origCountry>IT</origCountry>
        <origArea>ITD5</origArea>
        <procCountry>IT</procCountry>
        <prodCode>C03_2</prodCode>
        <prodText>Olive oil</prodText>
        <prodProdMeth>PD08A</prodProdMeth>
        <prodTreat>T106A</prodTreat>
```

**XML schema is published with the
guidance on data exchange:**

<http://www.efsa.europa.eu/en/scdocs/doc/1895ax1.zip>

**StandardSampleDescription.
1.0.xsd**

Validation process



- Standard Sample Description → live standard for transmitting data
- Challenge:
 - A standard should be **stable** so that Member States can implement it once and then use it for several years
 - A standard **has to change** to reflect a changing environment e.g new analytical methods

- Standard Sample Description data structure should change very little
- Standard terminologies may change and improve at defined time to allow the implementation in local system
- Maintenance window:
 - ✓ Oct - Nov each year where amendments should be proposed,
 - ✓ Jan - New version published

- Ad-hoc WG on extension of SSD v.1.0 to zoonoses (isolate base) and additives is ongoing to define a SSD v.2.0.
- SSD v.2.0 Backward compatible with SSD v.1.0
- Available for consultation in November 2012
- Published in May 2013
- Parallel running of SSD v.1.0 and SSD v.2.0 during data collection 2013.
- To decide switch-off SSD v.1.0.

Additions in the SSD catalogues

- Possible addition of new elements in the terminologies to support new data collections (new substances, analytical methods, sampling methods..)
- EFSA can provide you with a new code of missing elements but urgent inclusions cannot be of entire branches e.g. All additives

- **SSD supports the collection** of risk assessment data in different areas
- Easy submit **high quality data** on contaminants and pesticide residues in food and feed
- **Cooperation** with all organisations
- Stimulate **network approach** at national level (use of a common format for collecting data, efficiency in retrieving missing information and clarifications)

Acknowledgement

- Ruth Roldan: Data manager

DCM thanks you for your collaboration!



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