

FEEDBACK ON THE 4TH MEETING OF THE EFSA ADVISORY GROUP ON DATA

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82ND ADVISORY FORUM MEETING
1ST DECEMBER 2021



4TH MEETING (17TH NOVEMBER 2021)

- Discussion on project ideas (based on shared document) and next steps, including exchange of views
- Discussion on group way of working, long-term vision and desired achievements (with a draft agenda for 2022 presented)
- Focal Points working package in the data area

4TH MEETING OF THE ADVISORY GROUP ON DATA
PROJECT IDEAS

PROJECT IDEAS

- Technical document on ‘*EFSA’s proposal for possible projects to co-create data management and analysis applications with Member States*’ distributed for comments
 - Build a Data Mapping tool to convert national data to EFSA data formats
 - Build a Business Rule Engine (BRE) for data quality checking
 - Mobile application to support data collection at the sampling point
- MS feedback discussed

DISCLAIMER: *These three proposals, as commented by the Member States, will be included in the EFSA’s work plan and further discussed with EFSA from a technical point of view. Therefore, some modifications, adjustments, refinements, as deemed necessary, are still possible and will be discussed during the “**design phase**” of the three use cases.*

BUILD A DATA MAPPING TOOL TO CONVERT NATIONAL DATA TO EFSA DATA FORMATS

- Purpose:
 - Map laboratory/national data format to SSD2/other formats for data collection
- Why?
 - Stems from AFTF-EFSA: Translate existing national lab data to EFSA SSD2 format
 - Continue/Extend the work of SIGMA mapping tools and Swedish pilot on data linking
 - Facilitates the work of the data providers, replace old Excel Macro Tools
- Technical details:
 - Avoid typing
 - Get EFSA catalogues via API
 - Flexible mapping with local systems

BUILD A DATA MAPPING TOOL TO CONVERT NATIONAL DATA TO EFSA DATA FORMATS

COMMENTS

- Export option of these mapping tables would also be useful to allow the use of the mapping tables generated via this tool in self-developed routines for other programs (e.g. SAS)
- Mapping “à la carte” for some features/modules (e.g. FoodEx2)
- Further extend SIGMA project to all data models
- Continue the data linking project initiated by Sweden providing a easy to use user interface
- Many MSs already have similar tools developed, however, others don't (difference in added value between MS)

BUILD A BUSINESS RULE ENGINE (BRE) FOR DATA QUALITY CHECKING

- Purpose:
 - Data validation according to EFSA's or user defined rules
- Why?
 - Foster data quality throughout the whole data reporting chain
 - We should spend more time to get insights from data rather than validating/re-validating
 - Generate pre-validated “certified data sets”: Data Providers will know in advance that EFSA will accept the data transmission
- Technical details:
 - Reuse EFSA’s validation rules / language
 - Should handle small dataset as well as large files
 - UI to visualize data issues and edit data
 - Audit trail: who did what (backend)

BUILD A BUSINESS RULE ENGINE (BRE) FOR DATA QUALITY CHECKING **COMMENTS**

- Managing BR updates (current + next year version)
- Consider input data in other formats than XML
- Ensure that error messages are precise and comprehensive, also for non-experts.
- Important to get assistance in case of questions
- Confirmation of the successful submission of the validated data set
- Web app preferred (no installation)
- Two basic use cases (business processes) are conceivable:
 - MS data are collected at national level and then transformed into SSD2 schema and validated with the tool
 - There will be a library for business rule validations, which can be used at any step of data collection
- Data enrichment API (LLDB) highly supported, LLDB should be quality checked, should also include legal limits

MOBILE APPLICATION TO SUPPORT DATA COLLECTION AT THE SAMPLING POINT

- Purpose:
 - Mobile app to automatize the process of getting accurate FoodEx2 descriptions
- Why?
 - Facilitates data correctness & completeness in the early stages of the collection chain
 - Finally contributes to data quality
- Technical details:
 - GS1 barcode decoder
 - optical character recognizer (OCR)
 - image-to-text AI: food sample images -> textual descriptions

MOBILE APPLICATION TO SUPPORT DATA COLLECTION AT THE SAMPLING POINT **COMMENTS**

- GS1 barcode: GS1 is a private organization and membership is voluntary – agreement and/or maintenance issues
- OCR: makes sense in combination with GS1 barcode reading
- AI solution (pattern recognition): could be not only useful for not labeled food, but as a general solution for food classification in conjunction with FoodEx2 descriptors.
- Image-to-text: a very large database might be needed for correct identification
- Specificities of some BRs are a big obstacle for finding a valid FoodEx2 code at the point of food sampling
- MS proposal for a data collection system using *blockchain technologies*: create a system that allows gradually adding information for each sample at each step of processing

4TH MEETING OF THE ADVISORY GROUP ON DATA

DISCUSSION ON GROUP WAY OF WORKING, LONG-TERM VISION AND DESIRED ACHIEVEMENTS

ASSISTING EFSA IN BREAKDOWN OF STRATEGIC OBJECTIVES AND PRIORITISATION

- Annual update of the EFSA multi-annual work programme
- Bring in, evaluate, and prioritise project ideas, and assess how they would fit into EFSA strategic objectives and also MS strategic directions
- Discussing alignment with other adjacent European strategies
- An annual review of original Task Force recommendations
 - assessing their completeness level and identifying the most important gaps

STEERING COMMITTEE FOR THE DATA RELATED PROJECTS

- Review of the draft calls
 - channelling in MS perspective and experience
 - also performing a formal matching with the Task Force recommendations
- Providing an information exchange and consulting function
 - through discussing the status (challenges, achievements, concerns, possible connections and/or conflicts between different projects, etc.) of the ongoing projects

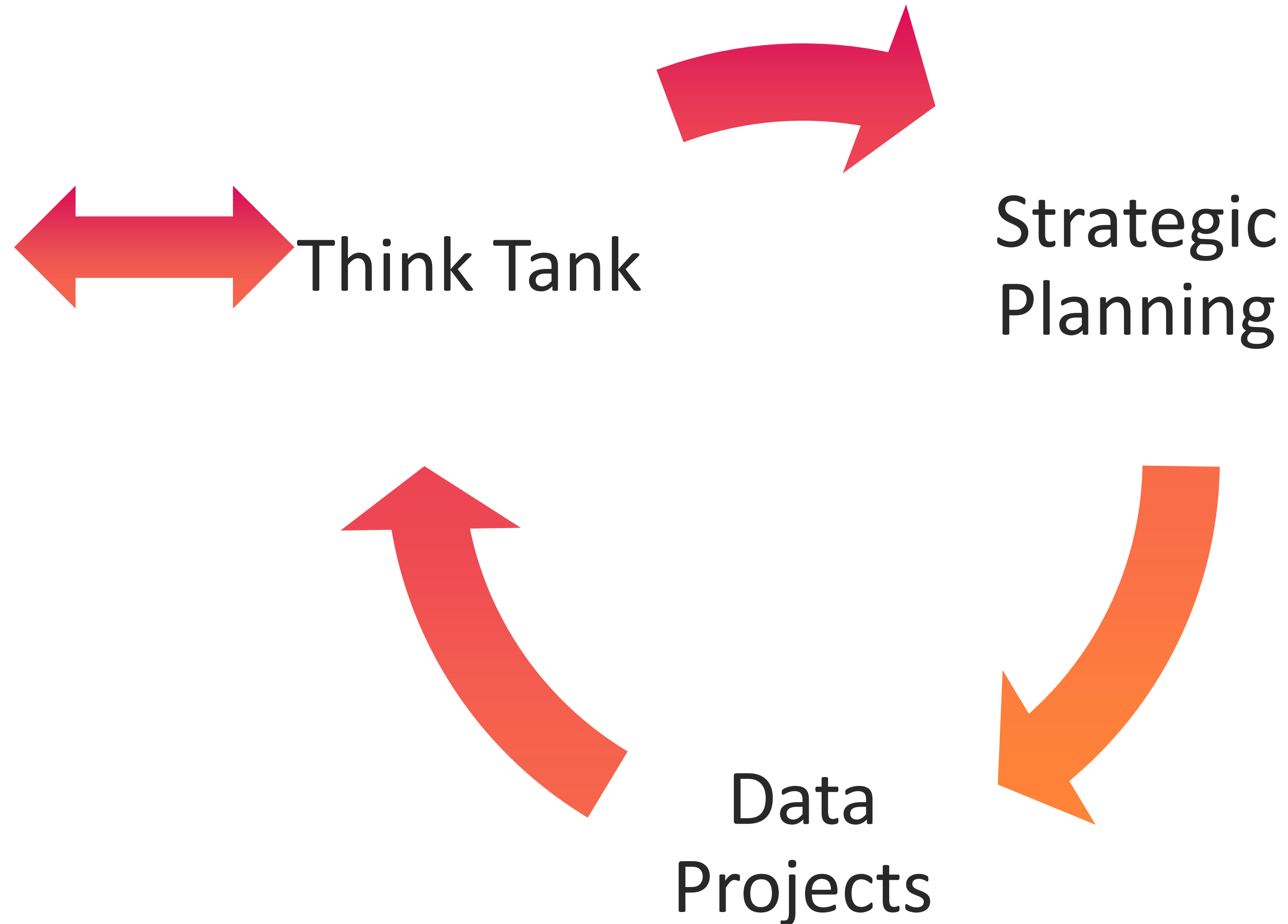
THINK TANK & KNOWLEDGE HUB

- Presenting MS data related good practices, solutions to food systems challenges
- Presenting MS draft project ideas
 - which later could be channelled into the work programme
- Bringing in novel ideas, approaches and solutions used or developed in other domains
- Learning from the results/outcomes of the projects
 - follow-up assessment of the projects after their implementation
- Formulating new recommendations beyond the original Task Force recommendations
- Synthesising and sharing knowledge related to data solutions
 - through the annual reports and a knowledge sharing platform

EXPECTED DELIVERABLES

- Progress updates at Advisory Forum meetings
- Multi-country projects agreed, launched, and implemented
- Input to EFSA on strategic prioritisation processes concerning data
- Group's activities report: publication on the EFSA website
- **Definition of a dedicated knowledge sharing platform**
 - To share information on data related knowledge, project initiatives, results, etc.
 - This initiative shall be discussed along other, similar initiatives
 - Future role of the Focal Point network shall be considered

WAY OF WORKING



AGENDA FOR 2021-2022

DEC 2021

- Finalise the workplan for 2022
- Discussion on the creation of a knowledge sharing platform
- Get aligned on the project calls
- EFSA colleagues to share insights on the AI Hackathon

Q1 2022

- TF recommendations: review
- Discussion on EU strategies
- Discussion on sharing data models and possible data model interactions (action item from 81st AF)
- Discussion on new project proposals
- Discussion on MS initiatives, good practices, and solutions
- Discussion on novel approaches

Q2 2022

- Discussion on DG SANTE data strategy and IMSOC
- Discussion on draft Annual Report
- Discussion on project ideas (draft calls) and alignment with EFSA annual work programme
- Discussion on MS initiatives, good practices, and solutions
- Discussion on novel approaches
- Knowledge synthesis, communication

Q3 2022

- Discussion on EC and other EU Agencies data strategies
- Finalisation of the Annual Report
- Discussion on project ideas (draft calls)
- Discussion on MS initiatives, good practices, and solutions
- Discussion on novel approaches
- Knowledge synthesis, communication

Q4 2022

- Review of ongoing data related projects
- TF recommendations: review and new recommendations
- Adjustment of the way of working of the Group
- Discussion on new project proposals
- Discussion on MS initiatives, good practices, and solutions
- Discussion on novel approaches
- Knowledge synthesis, communication

4TH MEETING OF THE ADVISORY GROUP ON DATA
**FOCAL POINTS WORKING PACKAGE
IN THE DATA AREA**

NEXT STEPS

NEXT STEPS

- Next meetings: last meeting on 13rd December (online) plus a physical meeting planned in Q1 (end of January / beginning of February 2022)
- Until next meeting:
 - Finalising the draft project grant calls to be launched in Q1 2022
 - Finalising the Group agenda for 2022
 - Preparing discussion documents for the meeting
 - Decision on setting up a knowledge sharing platform

THANK YOU FOR YOUR ATTENTION

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