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#### **Background**

 Nordic food composition database network NORFOODS was launched in 1982;



- Denmark, Finland, Faroes,
   Greenland, Iceland, Norway, Sweden, Åland;
- Aim to harmonise food composition database work in the Nordic countries (food classification, recipe calculation procedures, definitions of nutrients);
- Collaboration projects funded mainly by the Nordic Council of Ministers and by the participating organisations.



#### Nordic collaborative projects

 NORLEX project: Nordic Food Glossary. TemaNord 2001:515.

NORFOODS 2000 Project: Nordic principles for quality assessed food composition data and dietary calculations. TemaNord 2002:522
 results of Nordic dietary surveys not directly comparable

 NORFOODS 2002: Nordic Food Data on the Internet 2002:413.

 Öhrvik V et al: Improving food composition data by standarizing calculation methods: TemaNord 2015, 56 pp.



#### Background of the NFAN

- All the Nordic countries compile and manage their national databases and perform chemical analysis on food composition.
- Selection of new food items to be analysed is wide, but the resources for the analyses are very limited.
- Managing and updating FCDBs is resource intensive.
- Essential to work together to use the limited resources with the most advantageous way.
- Nordic analyses are needed to cover the food items typical for the Nordic Diet.
- Similarities in the culinary cultures between the Nordic countries are evident.



#### Nordic Food Analysis Network, NFAN



Jenna Rautanen Info-coordinator 2013-2014

- Nordic Food Analysis Network Integration and Cooperation of Food Analysis Programs in the Nordic Countries
- Meeting held in Reykjavik on June 2th, 2012
- The project was of special importance to Finland. The national food analysis program was just starting for the Finnish National Food Composition Database (Fineli).
- In the other Nordic countries, the food analyses were well-established procedures.



#### Nordic Food Analysis Network 2013-2016

- Collaboration between Nordic partners
- Working together with existing networks
  - Nordic Committee on Food Analysis (NMKL)
  - EuroFIR
- Extranet site of the NFAN: <u>https://www3.thl.fi/wiki03/display/Norfoods/Home</u>
- Linkedin





#### **Annual meetings**



# Nordic Food Analysis Network – preventing the overlapping analyses

- Imported foods e.g. avocado, banana etc. are mostly similar in every Nordic country
  - overlapping analyses should be avoided
- Analyses of the industrial foods and ingredients
  - baby foods
  - well-known Nordic industrial brand name products that are widely used in all Nordic countries
  - common industrial ingredients
- Fibre content of commonly eaten foods extremely important
  - whole grains important in the Nordic diet
  - the recent change in the definition of fibre
  - change in the analytical method of fibre
- Coordination of plans, updating and sharing data
- Comparative analyses (fibre, iodine, sodium)







#### Sampling

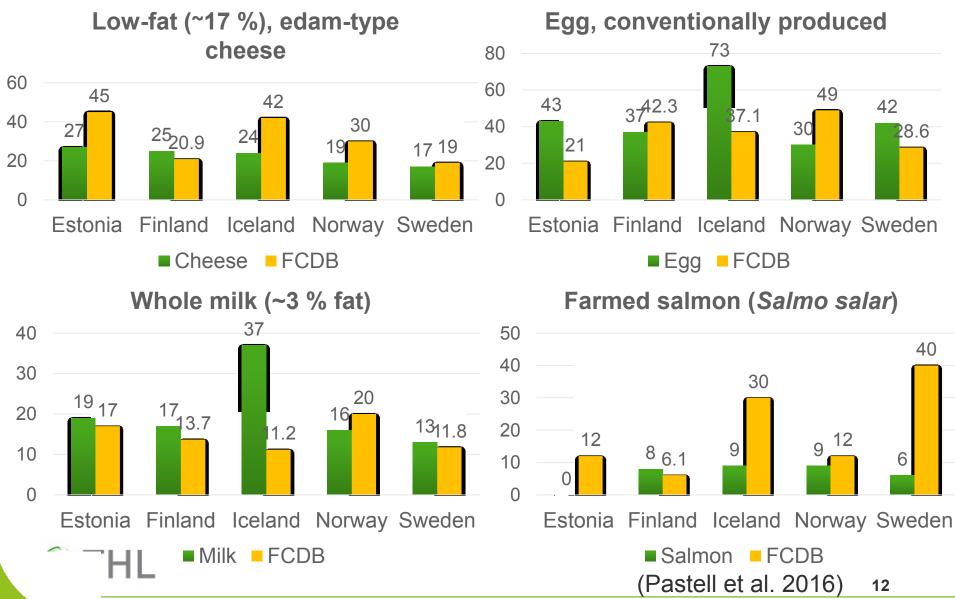
- The samples were collected from Estonia, Finland, Iceland, Norway and Sweden
- Based on the supply and the market shares of each country
- The subsamples (n=12) were pooled and sent to Evira,
   Finland for the analysis



#### lodine analysis results vs. FCDBs

(μg/100 g, fresh weight)





# Differences between the Nordis Evira foods and composition databases

- Iodine content varies from country to country
- Two-fold higher iodine contents in Icelandic conventionally produced egg and whole milk, as well as in Swedish organic egg
  - Fish-rich feed used in Iceland may explain the high iodine contents
- Analyzed results were lower than current values in FCDBs in low-fat cheese and farmed salmon
- Some differences also in fibre and sodium results.
- Recipe calculation methods are getting closer.
- Fortification practices are differents in the countries.
- Supplement information varies.

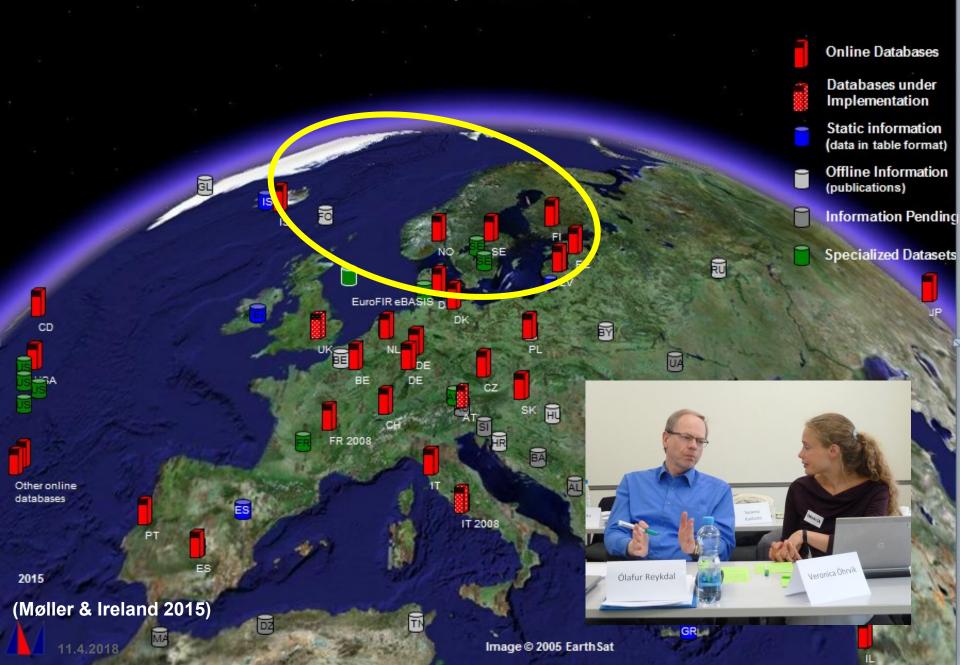




#### **European Food Composition Information**

EuroFIR
European Food Information Resource

European Food Composition on the Internet



Déjà Vue?



#### Not a surprise!

The meeting in February
1982 in Uppsala was
something!



Déjà Vue?



With Åke (Bruce)
we put forward this
fantastic idea of a
common food
composition database to
be compiled on a Nordic
CORE FOOD LIST.



#### Better connection points and interfaces than ever

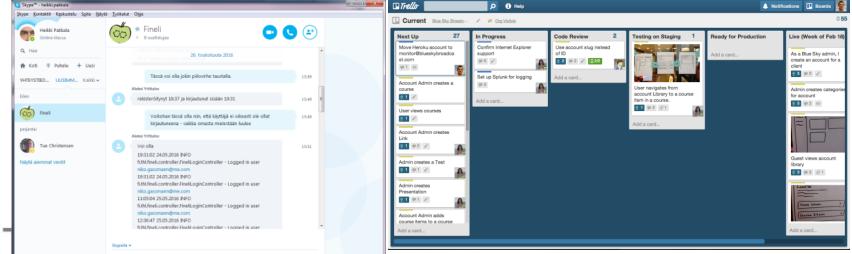
- From closed information system monoliths to interface based systems and frameworks
- Smaller apps talking with each other
- Application programming interfaces (APIs)



#### Work over organizational barriers

- Cooperation at day-to-day level possible
- Virtual team tools over Internet
  - Visualize, organize, prioritize, track
  - Kanban board based (e.g. Trello, Jira)
- From videoconferencing to instant messaging
  - Lync, Skype, what's up

Kirjoita viesti tähän





#### From data to innovation

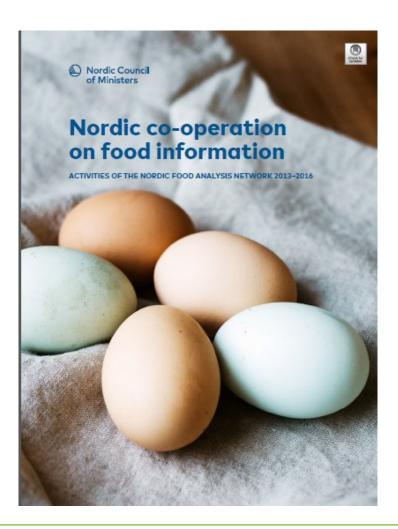
- Food composition data themselves are not important
  - utilizing this information is!
  - and quality is (the GIGO princ applies)



- How to connect with end users and make open innovations?
- How to support the end users?



#### The NFAN Report 2017





Liisa Valsta 20

## Fostering the quality and use of Nordic food composition data

(Seminar held in Helsinki Finland in October, 2016)

- Update on the Nordic food composition databases (FCDB)
- Sampling and food analysis methods for FCDBs during recent years
- Role of analyzed nutrient composition in the Nordic FCDBs
- New data sources that may be used to improve the quality of the Nordic FCDBs
- How Open food information and nutrient composition data may feed to new innovations and applications?
   (e.g. sensor technology and wearable device development)
- How are the Nordic FCDBs used by today and how could the use be further facilitated for new user groups by new Internet applications

#### MINTEL evaluation

# MINTEL GNPD GLOBAL NEW PRODUCTS: TRACKED, ANALYZED, EXPLAINED.

http://www.mintel.com/global-new-products-database

Case: Foods with the Finnish Heart Symbol



### Nordic Food Composition for Labelling (NordCoLa) 2018-2019

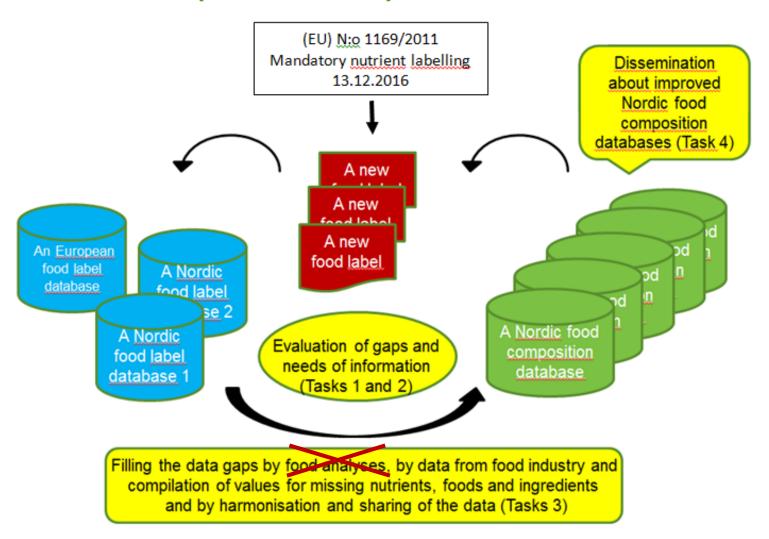




Figure 1. The tasks of the Nordic Food Composition for Labelling (NordCoLa) project.

(Valsta and the NFAN, 2016)

#### Summary and future perspectives

- Long history of Nordic collaboration in food consumption databases (NORFOODS).
- Evident synergies in Nordic food composition database work also in the future.
- Urgent need to assure good quality composition databases.
- Recently, the Nordic Food Analysis Network has served to get the best out of the limited resources.
- The Nordic collaboration continues.
- Proposed to concentrate at least first to harmonise Nordic food consumption data instead of aiming to a common food composition database.
- "Fostering the quality and use of Nordic food composition data" and the "NordCola" projects ongoing.
- The future is open!

#### Coordinator of a networking project





#### Nordic collaboration at its best





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- Suvi Virtanen
- The NFAN Network





#### Thank you! Questions?





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