FNS - Cloud

Food Nutrition Security

Overview Activities Outputs Video Events News Contact Search

NEW – FINAL EVENT: Save the date!

What we are doing?

FNS-Cloud will launch a first-generation 'food cloud', federating existing and emerging datasets and develop new services to support re-use by researchers.

Home - FNS-Cloud

FNS - Cloud Food Nutrition Security

Food Nutrition Security Cloud (FNS-Cloud) has received funding from the European Union's Horizon 2020 Research and Innovation programme (H2020-EU.3.2.2.3. – A sustainable and competitive agri-food industry) under Grant Agreement No. 863059 – www.fns-cloud.eu

FNS-Cloud Activities

Realising FNS-Cloud is organised into nine activities structured around technical implementation, use cases and demonstrators, which will test FNS-Cloud Services, and support, delivering dissemination and community engagement, training and governance. Others are management of the project and research ethics.

Agri-food demonstrators Risk assessment –Total Diet Studies (TDS), Foods & Mixtures

Aim:

- Deploy and test FNS Demonstrators for agri-food risk assessment using FNS-Cloud Services

Deliverable:

- Develop demonstrator tools:
  - High-end users: **Monte Carlo Risk Assessment (MCRA) app** to assess exposure from Total Diet Study (TDS) data with consumption data from the Netherlands, Germany and Belgium
- Training and Cloud service for academia and industry

FNS-Cloud Food Nutrition Security

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Food Nutrition Security

- Standardisation of TDS input data of three countries NL, DE and BE to ensure applicability in several countries
- Harmonized approach using codes and standard formats agreed by the European Food Safety Authority (EFSA) and EU Member States for food safety
- MCRA TDS Demonstrator available in the Azure cloud
- Training materials for users (community of practice)
- Contact MCRA

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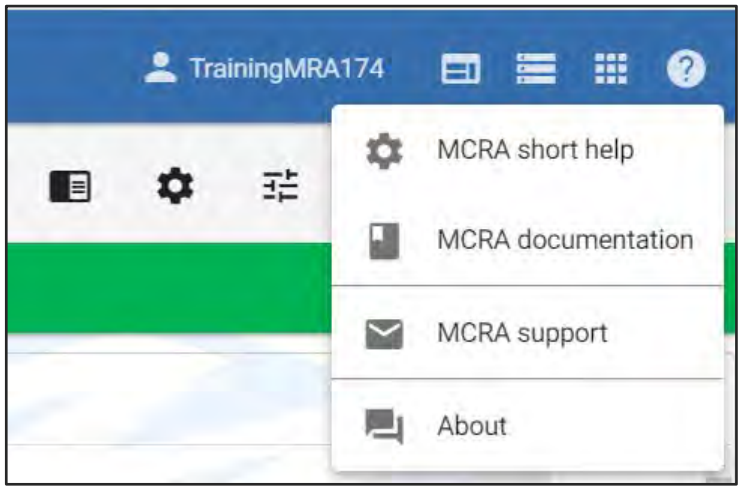
Demonstrator and helpdesk

- Overview data formats and standard data templates can be downloaded



- More training materials for risk assessment

- Support might be organized in user groups (community of practice)
  - community of practice that might wish to work as TDS centres
  - user groups that might be interested for other reasons

- Interested in future trainings sent a mail to MCRA support or contact RIVM

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Content

Lecture 1: international interest in Total Diet Studies (TDS)

Lecture 2: risk assessment based on TDS data

Lecture 3: TDS applied in Belgium for training courses of students (community of practice)

Hands-on training: how MCRA is used in a harmonized TDS approach

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Lecture 1: international interest in Total Diet Studies

National Institute for Public Health and the Environment
Ministry of Health, Welfare and Sport

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BfR
German Federal Institute for Risk Assessment

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Content lecture 1

- What is a Total Diet Study?
- Why is it important at the international level?
- EU project TDS
- FNS-Cloud project

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EFSA – FAO – WHO guidance TDS

JOINT GUIDANCE OF EFSA, FAO AND WHO

Towards a harmonised Total Diet Study approach: a guidance document[1]

European Food Safety Authority (EFSA), Parma, Italy[2, 3]

Food and Agriculture Organization of the United Nations (FAO), Rome, Italy

World Health Organization (WHO), Geneva, Switzerland

https://efsa.onlinelibrary.wiley.com/doi/epdf/10.2903/j.efsa.2011.2450

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EU funded project Total Diet Study

- Collaborative 4 –year research project
- Funded by European Commission within 7th Framework programme
- Conducted from 2012 – 2016
- Coordinator:

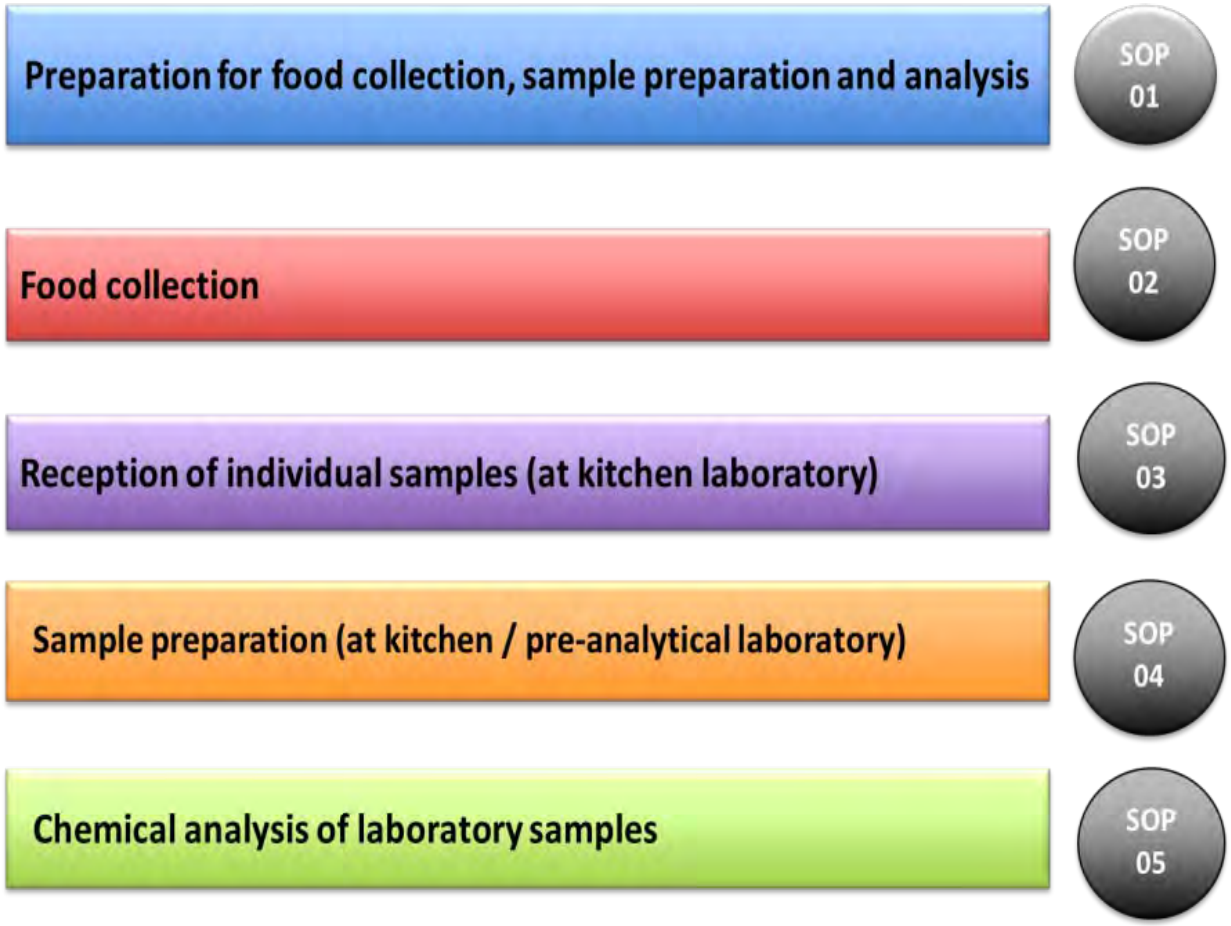
  French Agency for Food, Environmental and Occupational Health & Safety (ANSES)
- http://www.tds-exposure.eu/

Objective: harmonisation

Harmonization of TDS method

1. Preparation of Standard Operating Procedures (SOPs) to assure quality and consistency of TDS
2. Testing feasibility of SOPs in practice via a pilot study
3. Use of the same exposure assessment software to assess the exposure to several contaminants

Standard Operating Procedures



Pilot study (1)

- By conducting a TDS in Czech Republic, Germany, Finland, Iceland and Portugal
- Based on the defined SOPs

  Slightly modified to reflect different conditions in countries: procedures were harmonized
- 2014-2015

Fifth WHO-TDS workshop Seoul

Workshop report: here

Workshop conclusions

Conclusion:

- Harmonised food classification system such as the European FoodEx system is important
- MCRA was successfully used to calculate exposure levels and to produce comparable numeric and graphical output

Total Diet Studies - 6th International Workshop in Berlin

Worldwide exchange on planning, implementation and experiences with TDS

The German Federal Institute for Risk Assessment (BfR) and the World Health Organization (WHO) hosted the "6th International Workshop on Total Diet Studies (TDS)" on 10 and 11 October 2022. At the conference, countries from all over the world presented results and latest developments in the field of TDS.
The event was preceded by a four-day online tutorial on planning and conducting these studies, organised by 20 representatives of countries, planning to conduct their own TDS in the future took part.

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- WHO-BfR-TDS training was well received and participants (TDS centres) showed interest in community of practice using MCRA
- Training materials for teachers and academia (community of practice)
- MCRA TDS Demonstrator in the Azure cloud
  - How to deal with flexible use (e.g. class of students once a year)
  - Cloud resources

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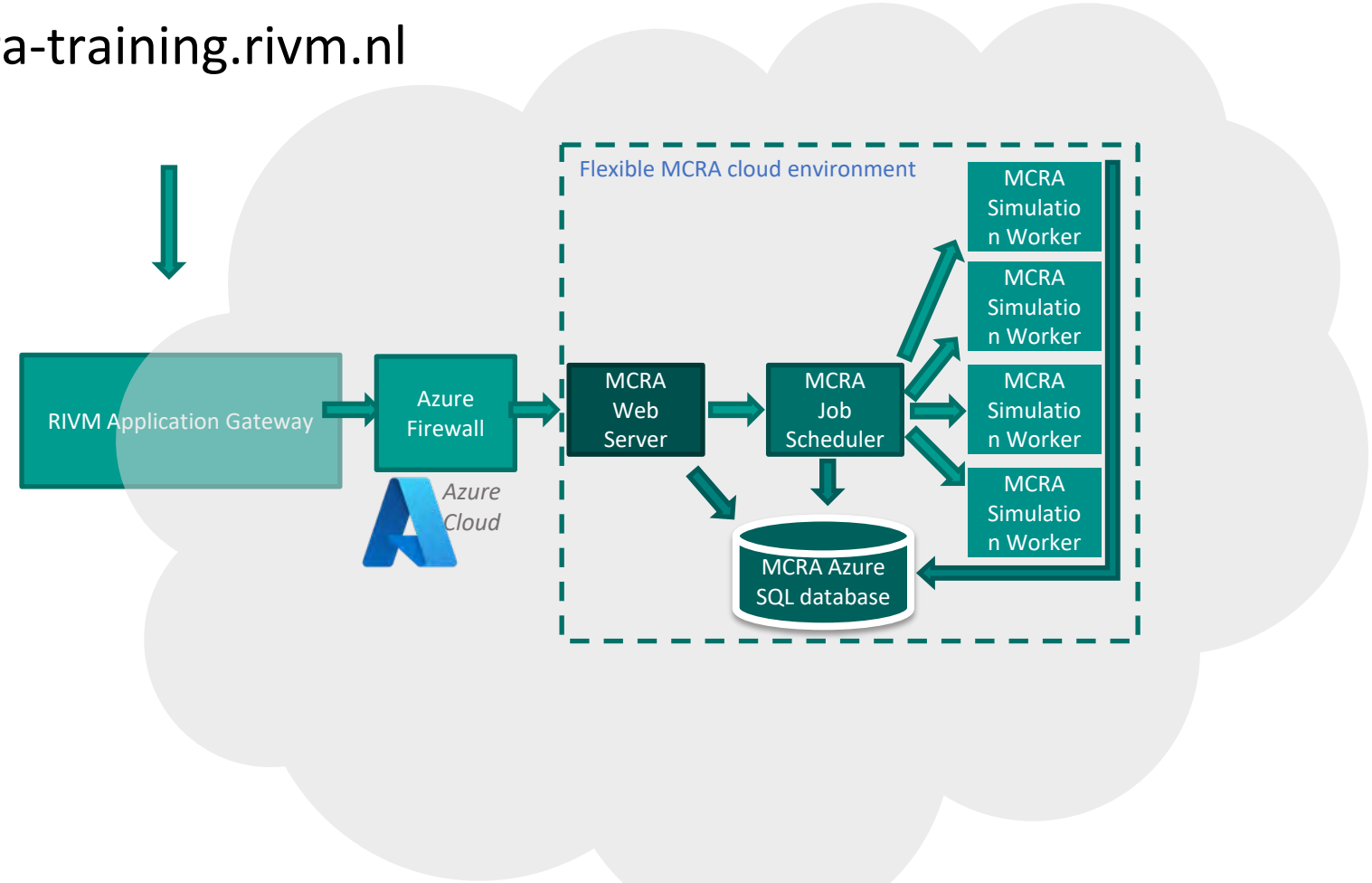
MCRA cloud architecture and url

mcra-training.rivm.nl



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Overview MCRA in the Cloud

- Deliver a flexible MCRA environment for training purposes
- This MCRA environment can be set up and removed in a short time
- Training MCRA accounts are created automatically
- Can be used in training classes
- Use conditions to be agreed

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Lecture 3. TDS applied in Belgium for understanding exposure to Nickel

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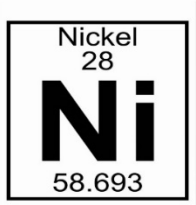
NICKEL ?



Relevance of Nickel as potential food safety hazard **?**

- A risk assessment of EFSA in 2015 stated that the occurrence of nickel in the diet is worrying for the general European population and for Ni-sensitive individuals (EFSA, 2015)

efsa
European Food Safety Authority

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Risk assessment

- Comparison of calculated exposure with TDI of 13 µg/kg bw/day

- For children, adolescents and adults➔ no exceeding from the aforementioned reference value was observed.

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Hands-on training: how MCRA is used in a harmonized TDS approach

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Learning goals

- Get familiair with MCRA
  - Create and run a standard action: TDS Belgium Nickel
  - Run a standard action: TDS Germany methyl mercury
  - Understand the output and use your own data
  - Upload your own data (e.g. TDS data from the Czech Republic)
  - Documentation

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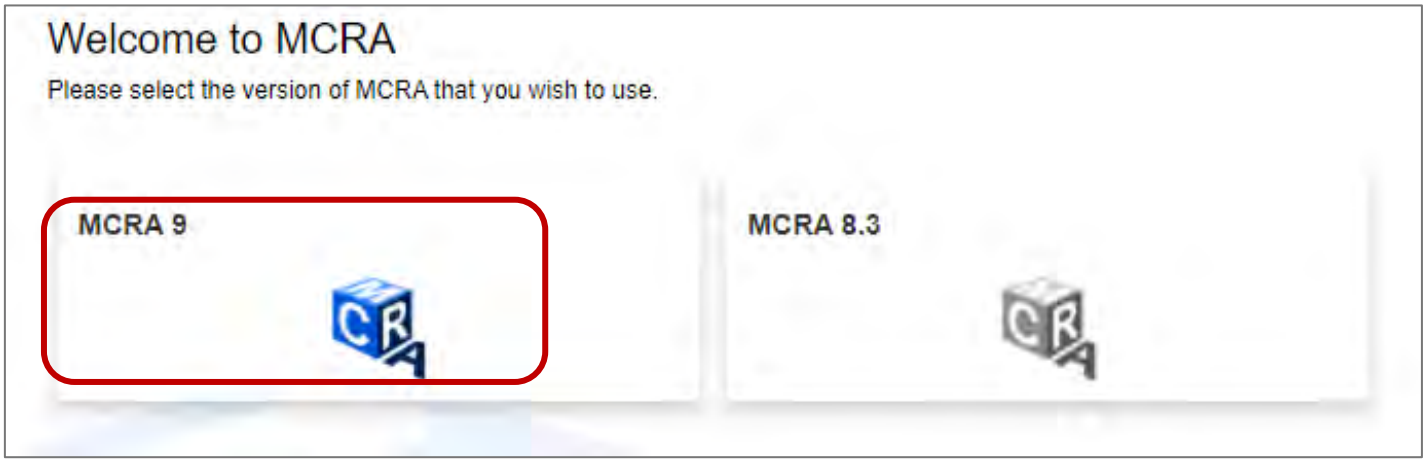
MCRA

- mcra.rivm.nl
- MCRA 9



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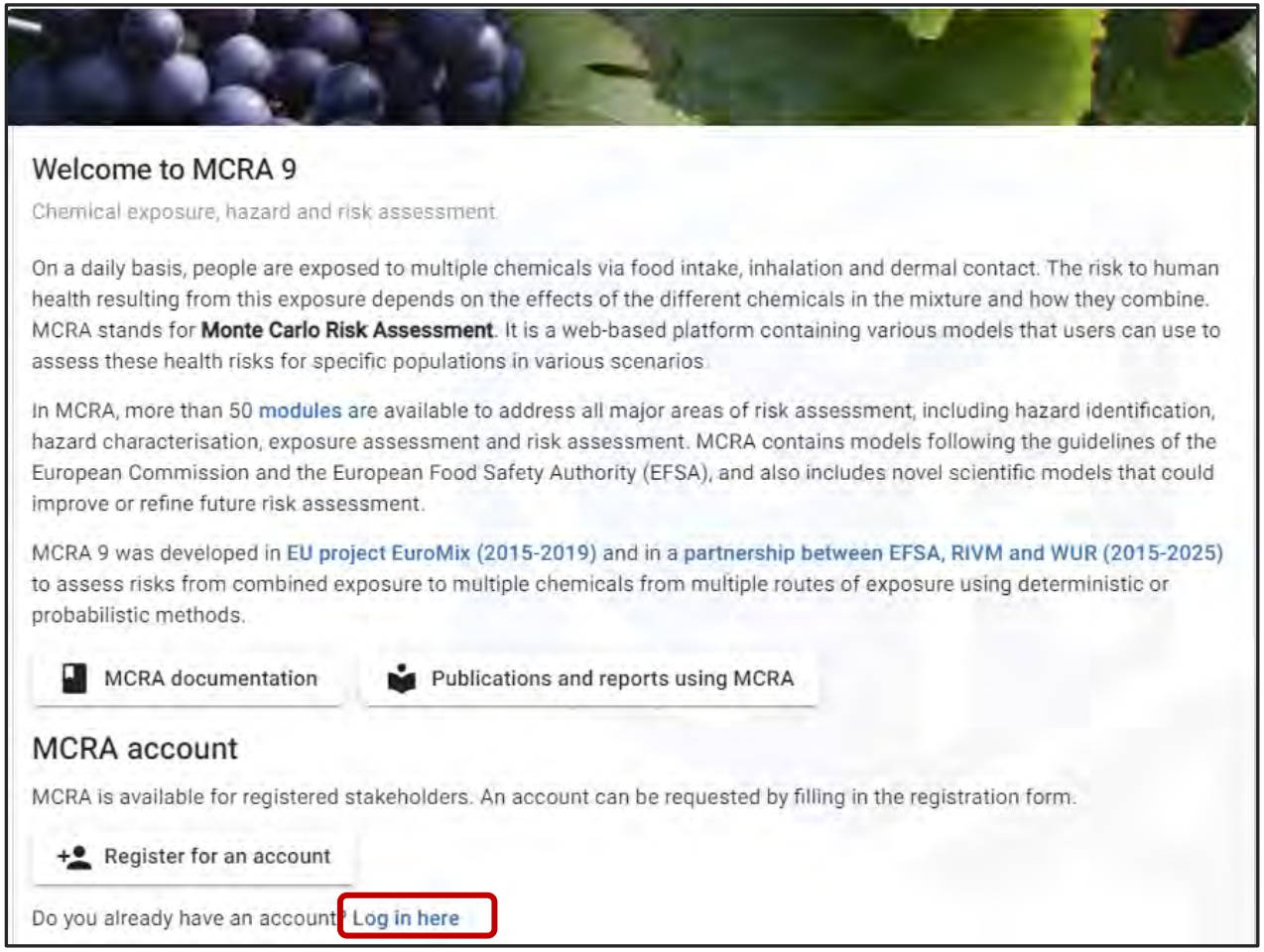
Opening page with short explanation



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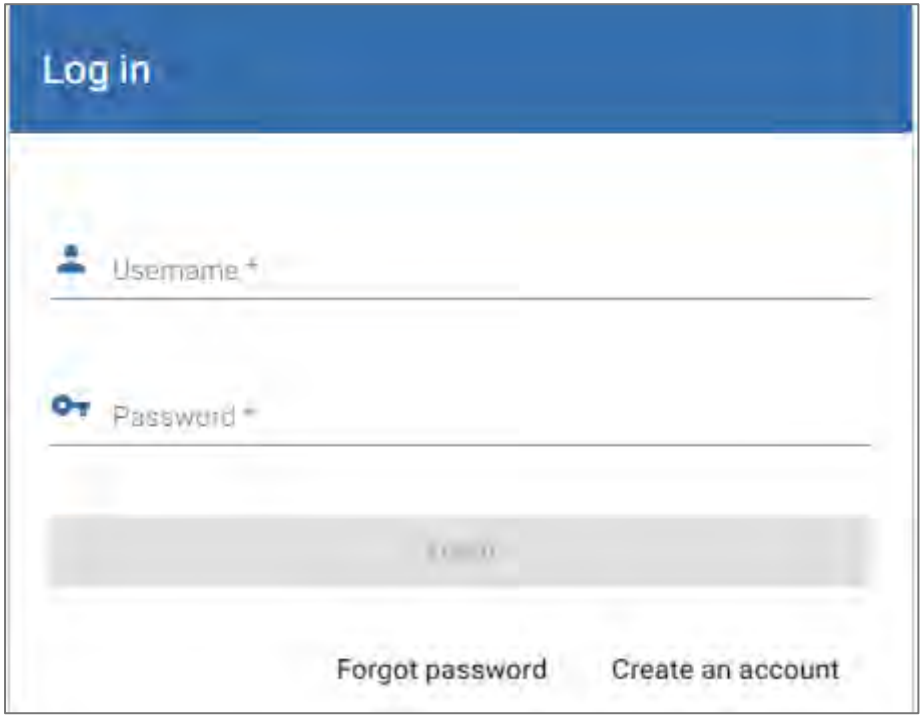
Login



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Create workspace

- Select workspaces

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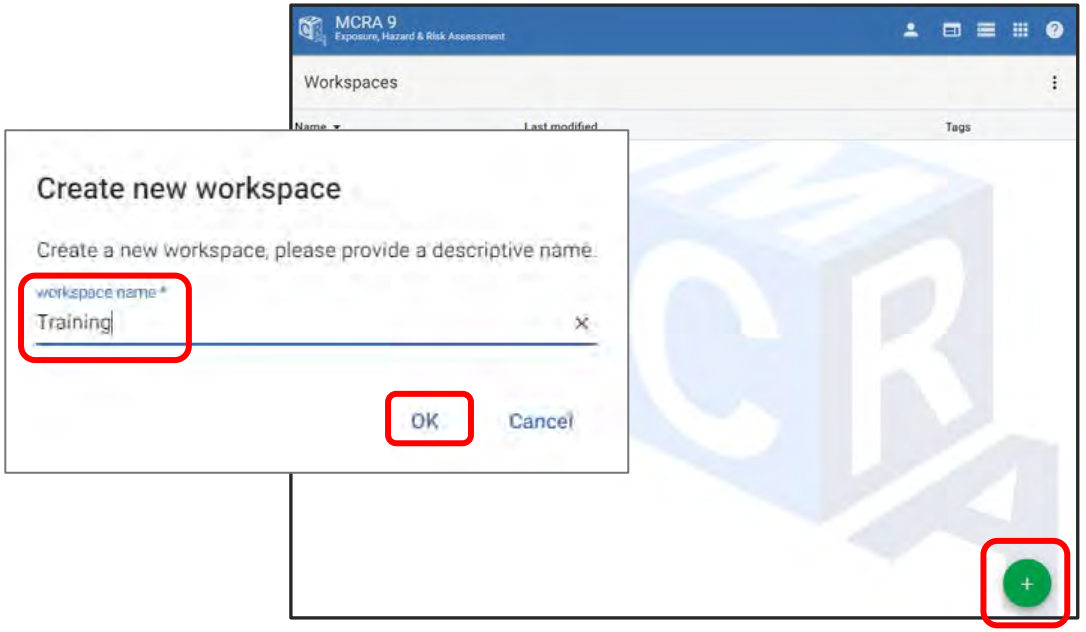
Create workspace (2)

- Create workspace by clicking +
- Give the workspace a name and click on ‘OK’



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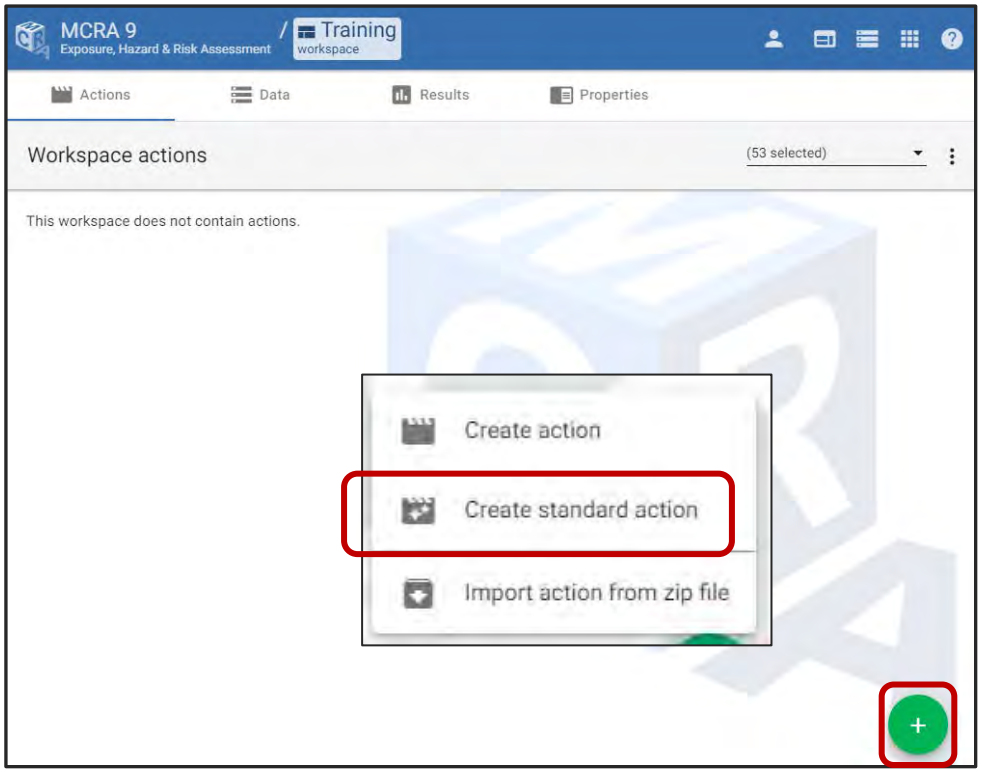
Create standard action (1)

Create a standard action by clicking +

Select create standard action



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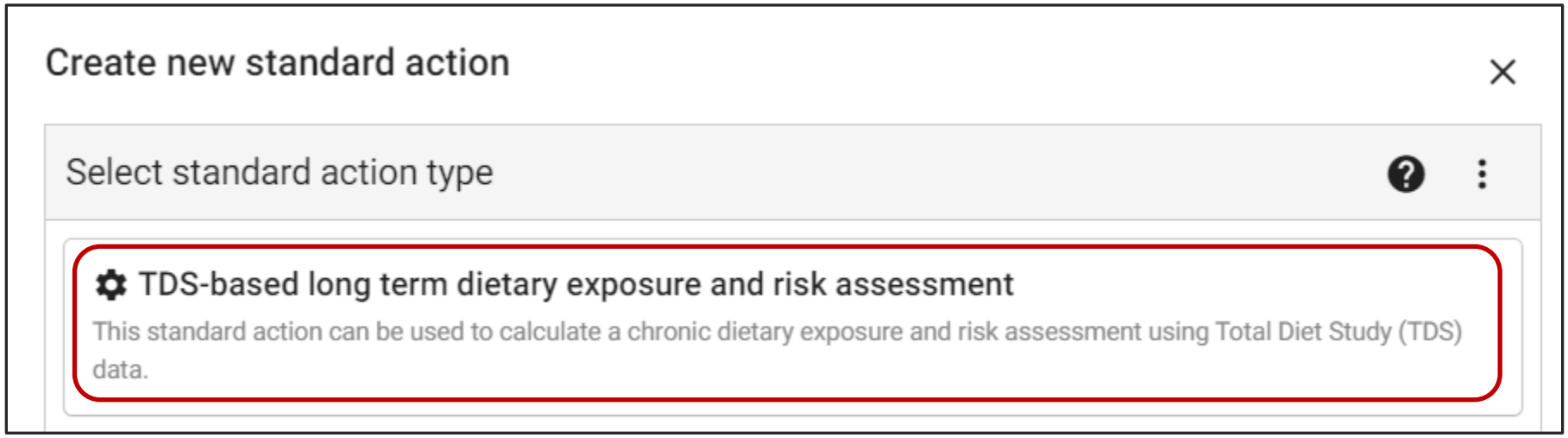
Create standard action (2)

Select ‘TDS-based long term dietary exposure and risk assessment’



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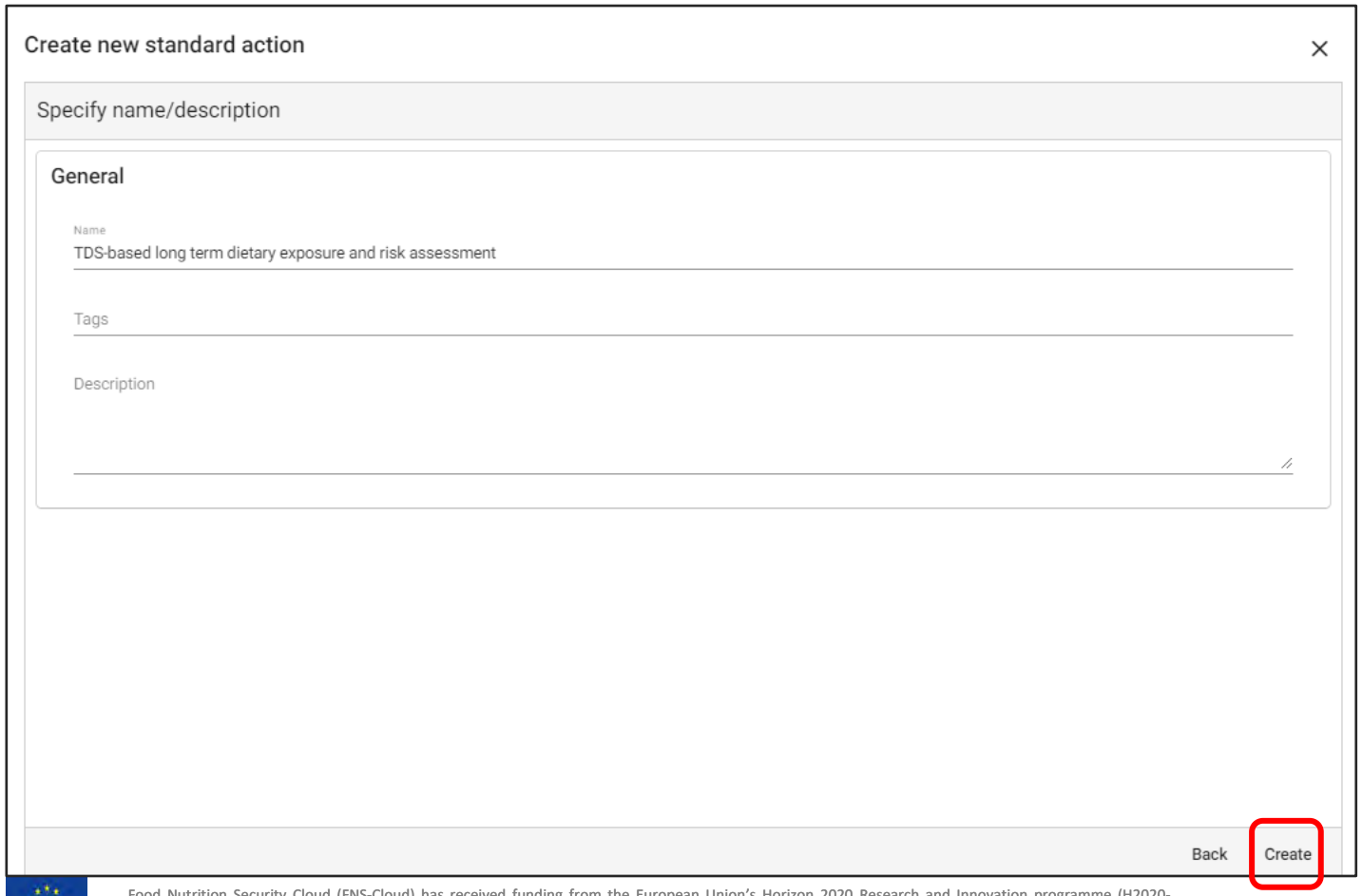
Create standard action (3)

Select ‘Create’



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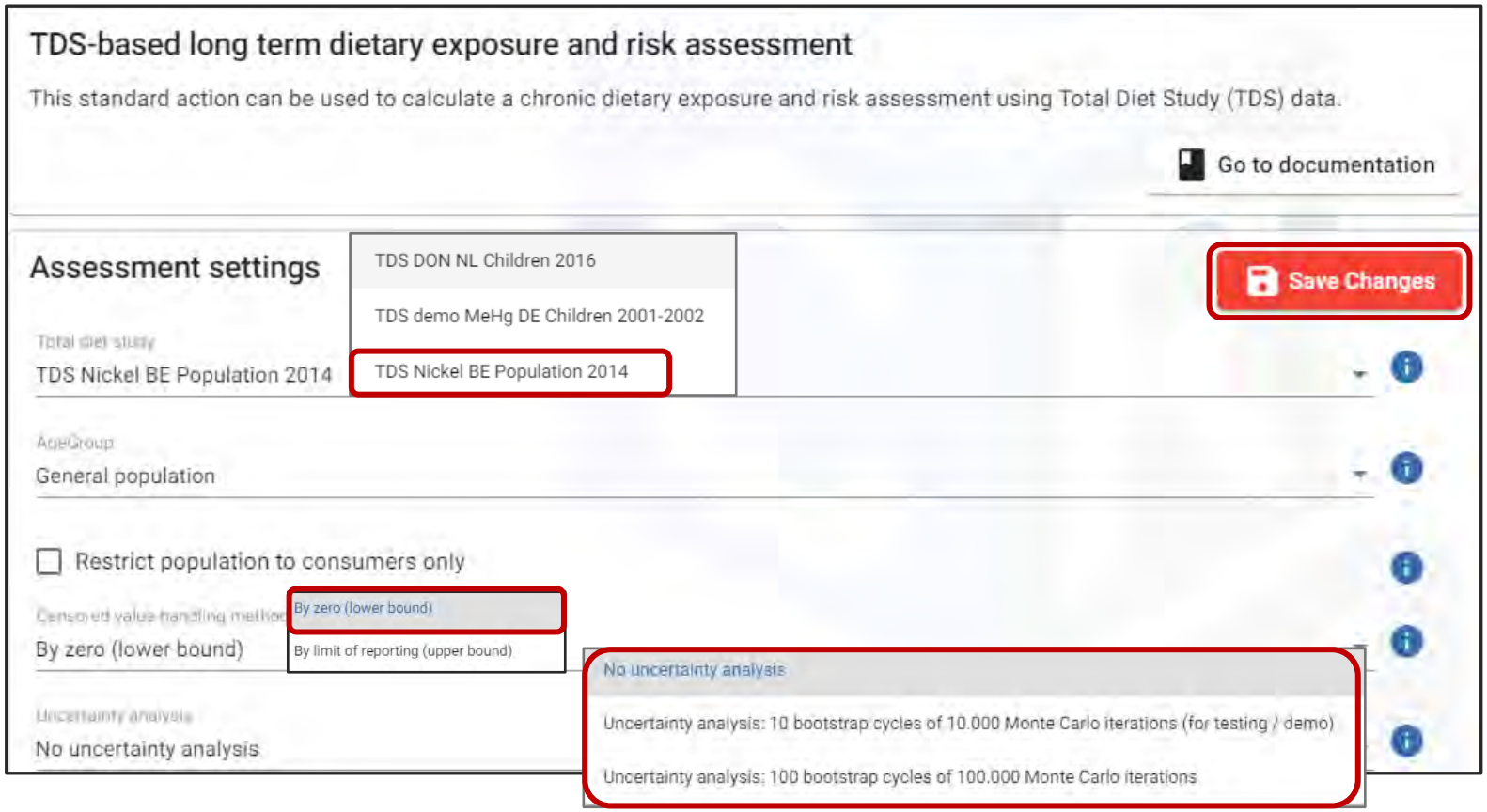
Inspect settings

- Select TDS Nickel BE Population 2014
- Press **Save Changes**



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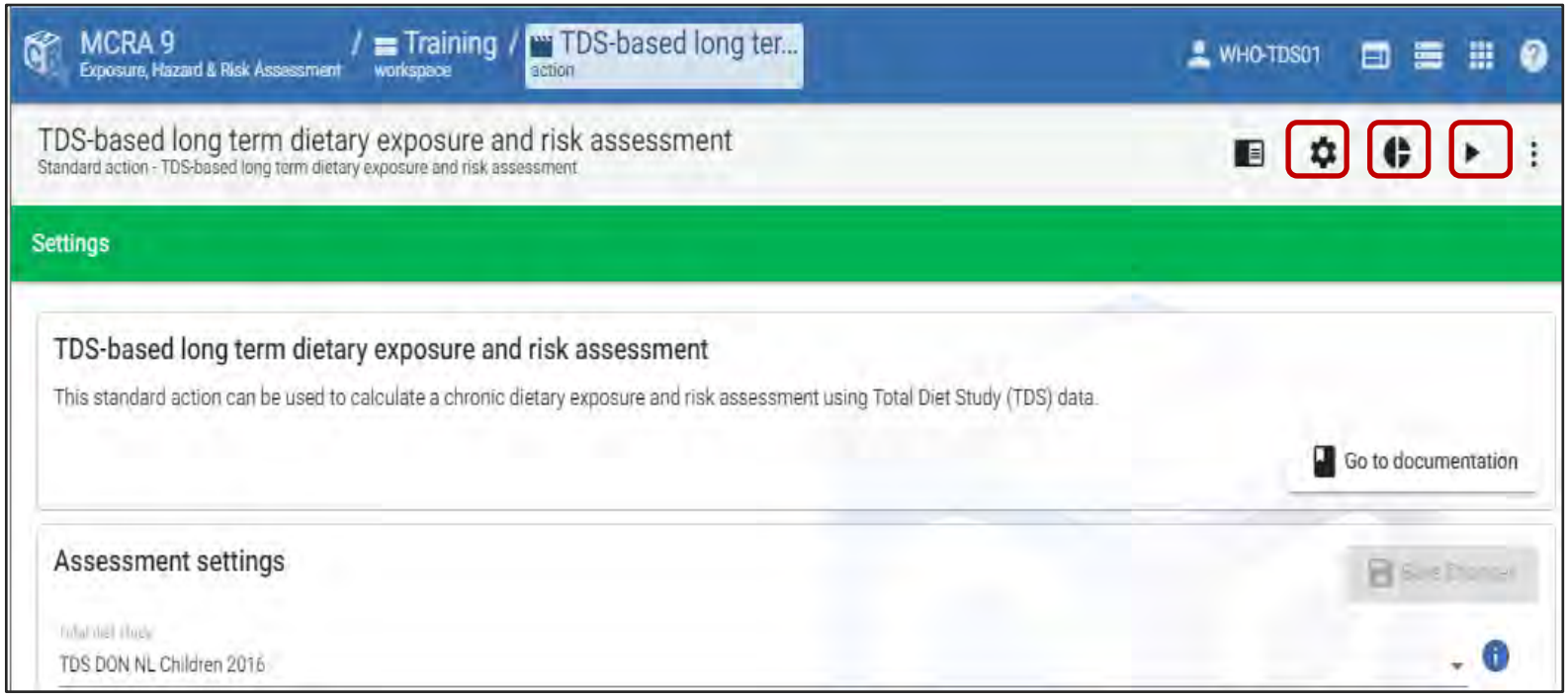
Navigation pane exercise

- Go to ‘Settings’
- Go to ‘Results’
- Run an action



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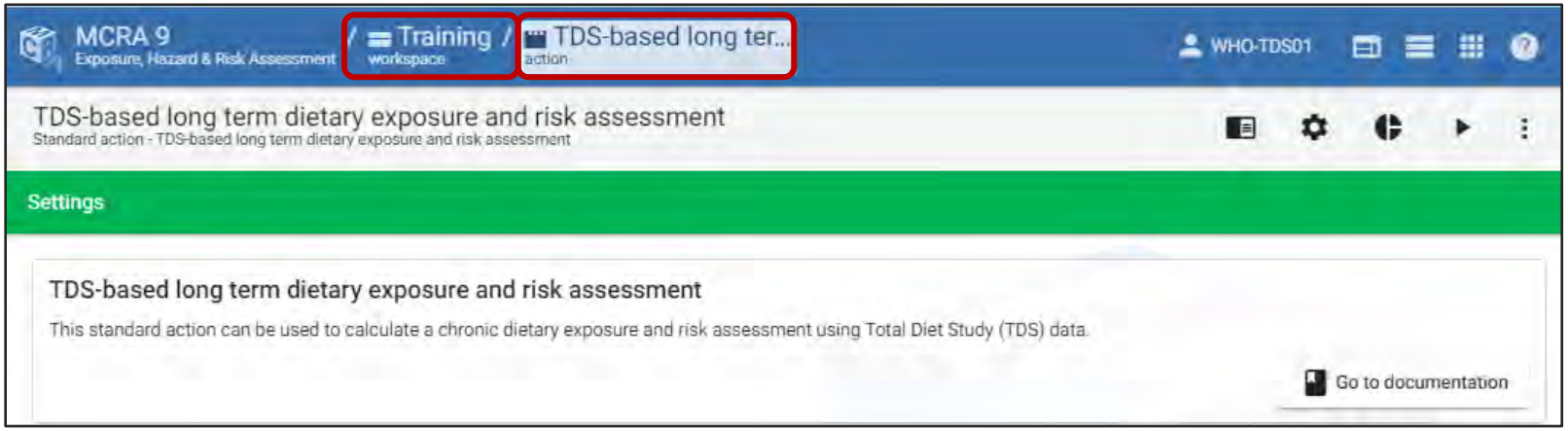
Navigation pane exercise

- Go to ‘action’
- Go to ‘Workspace’
- Go to action again



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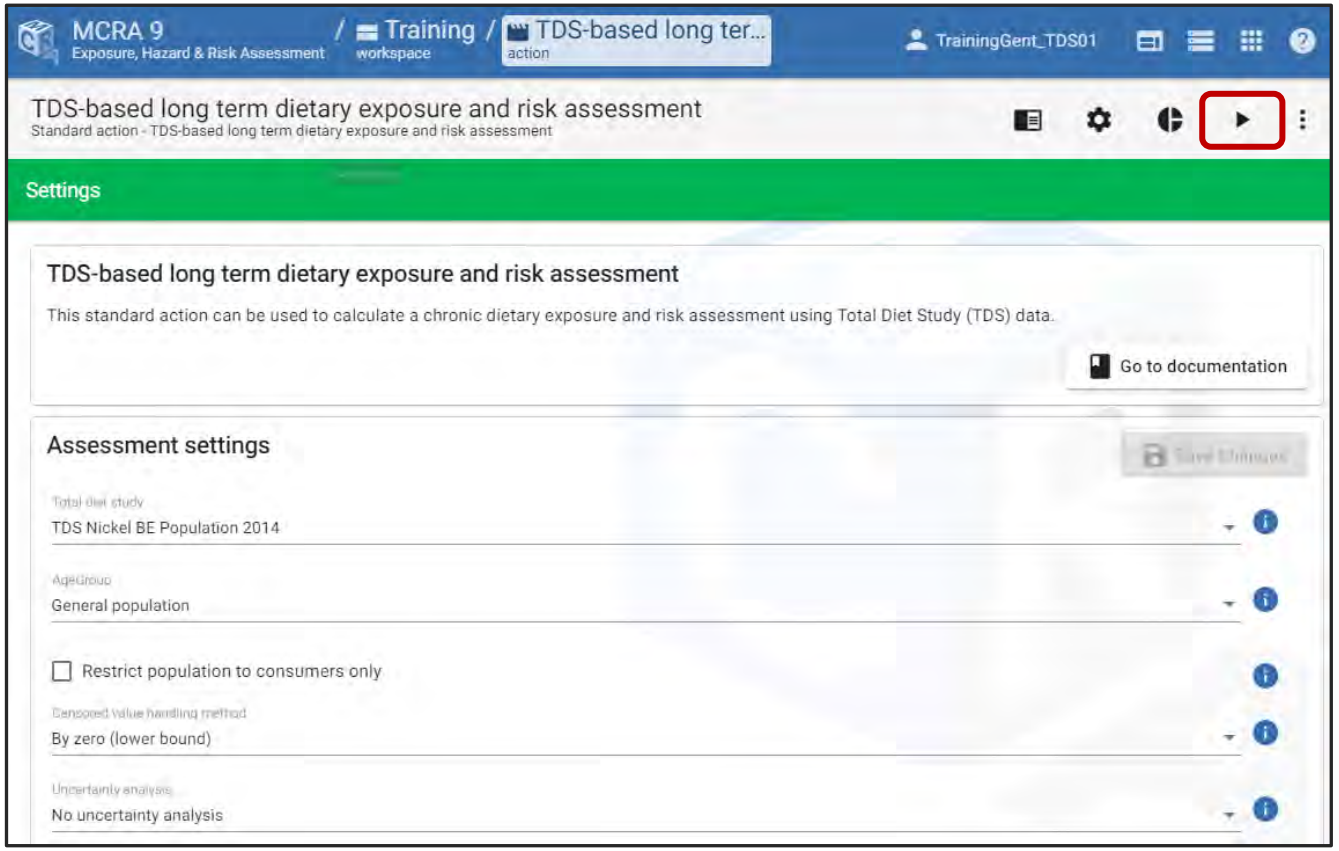
Press run

Press run ▶



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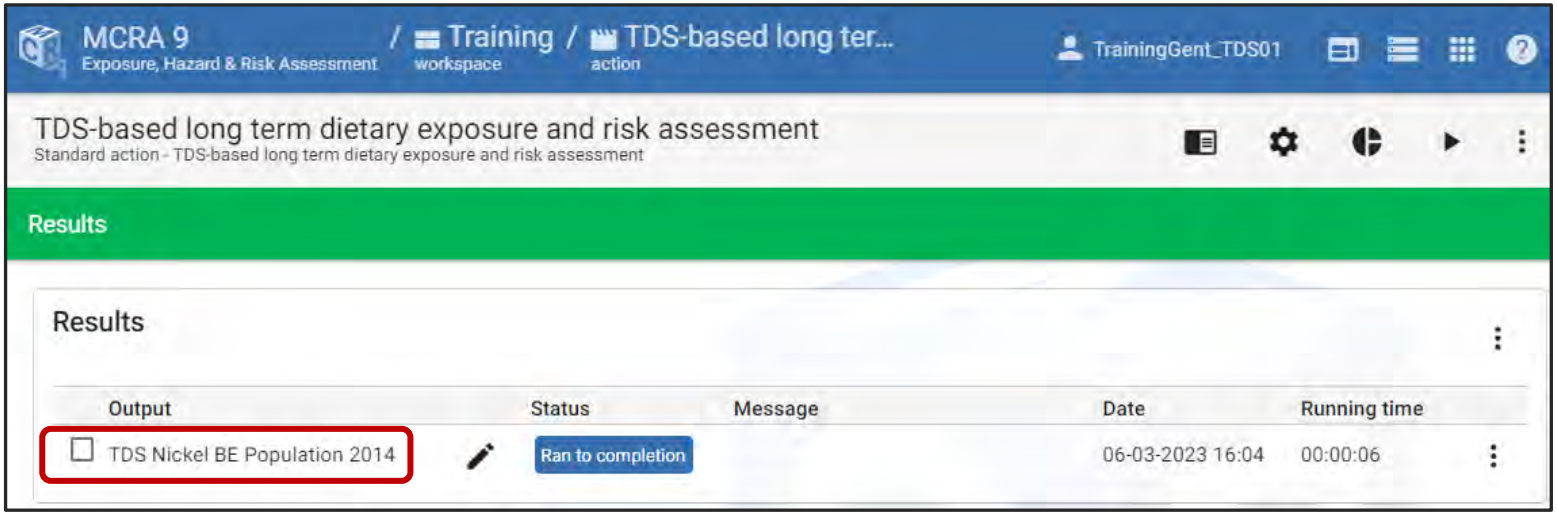
Wait for completion and open the report

Wait until the job has finished · Ran to completion

Open report by clicking on the name of the output



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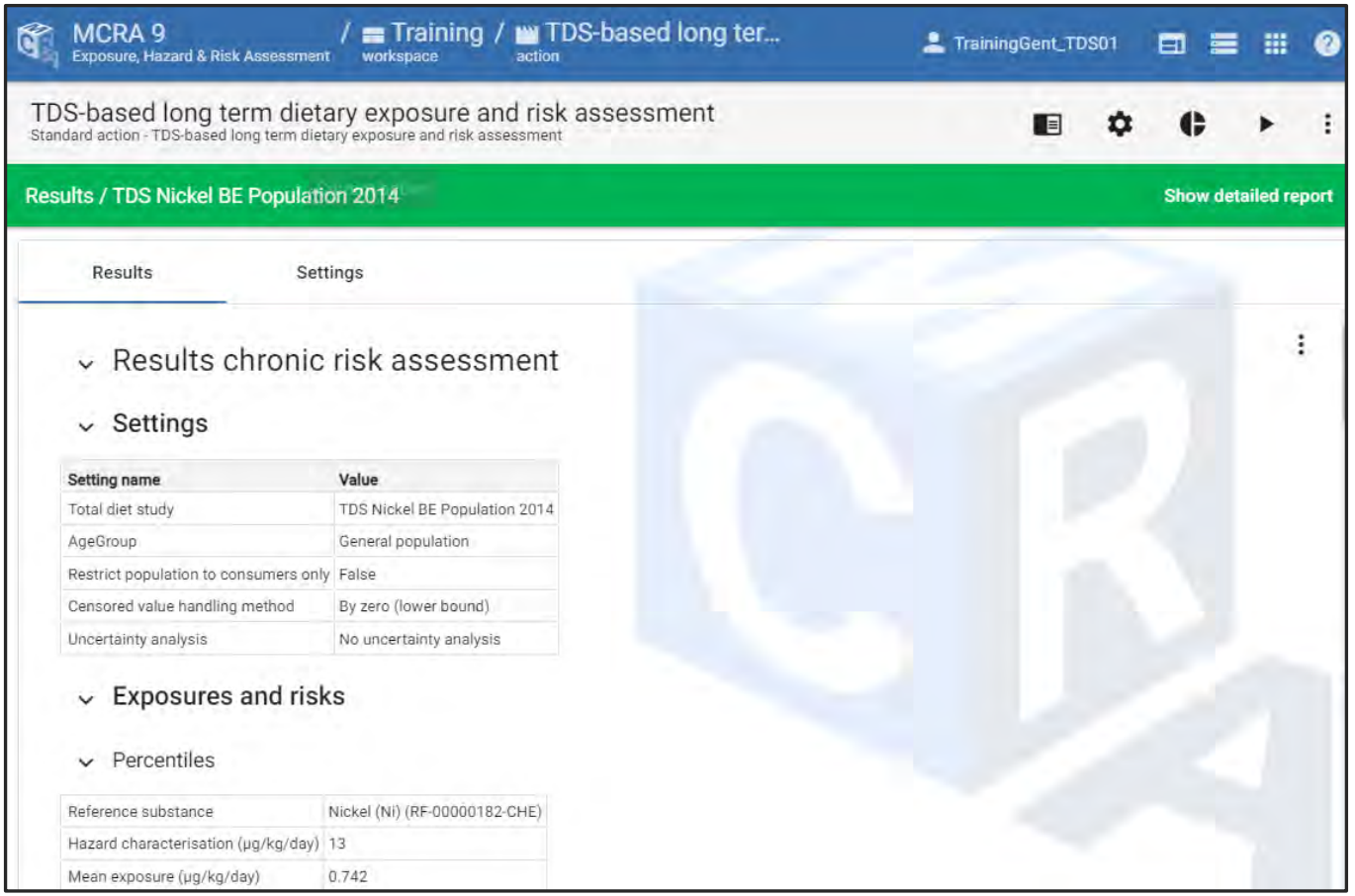
Browse through the report

- Browse through the report



FNS-Cloud Food Nutrition Security

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Exercise E1

- Report the exposure at the 50- and 95-percentile.
- Which foods are contributing most to the dietary exposure?

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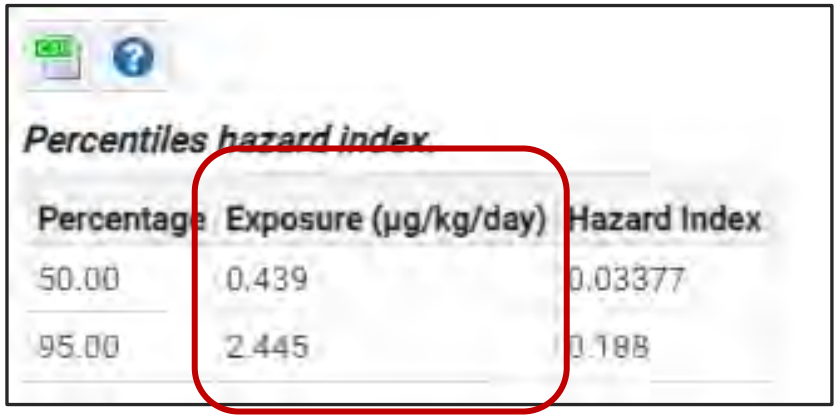
Exposure at p50- and p95



Percentiles hazard index

Percentage	Exposure (µg/kg/day)	Hazard Index
50.00	0.439	0.03377
95.00	2.445	0.188

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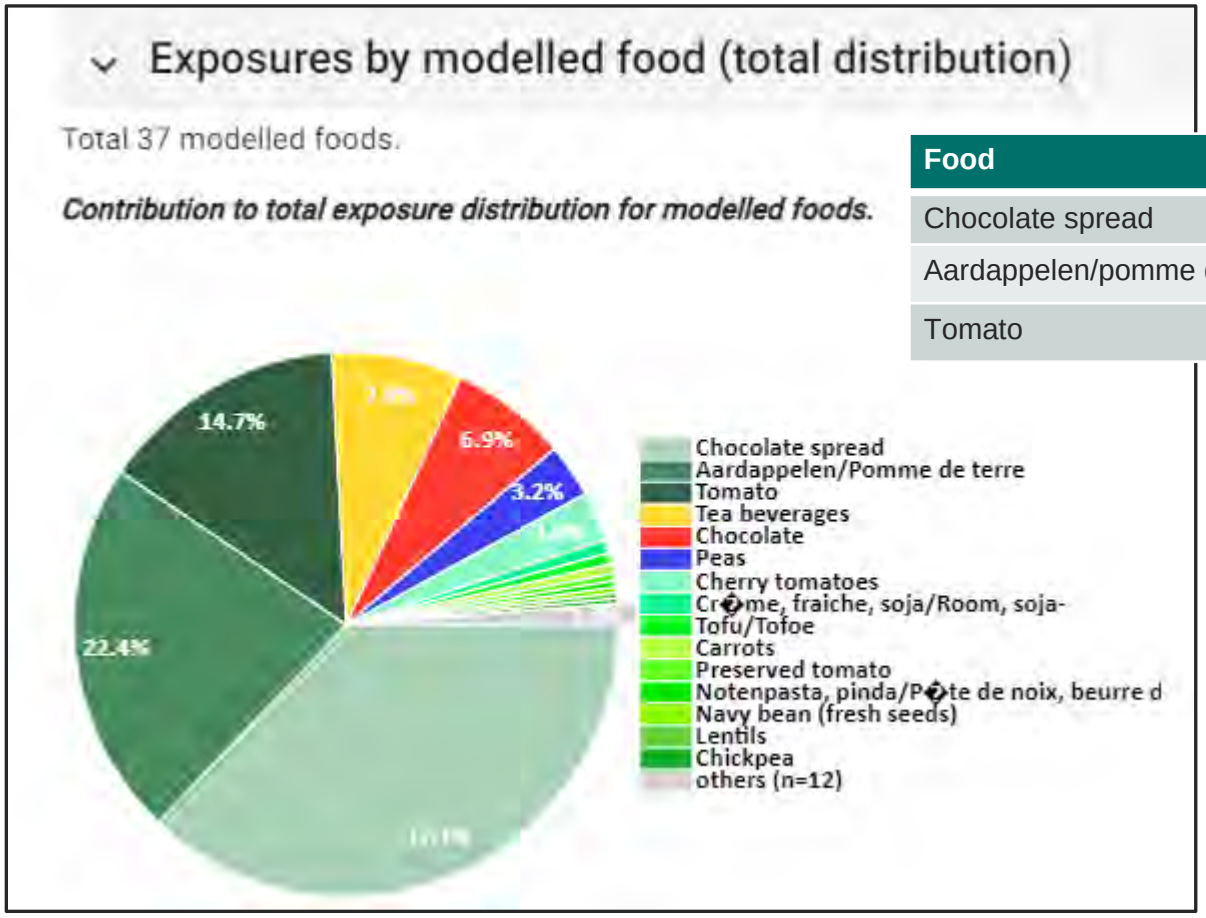
Foods contributing the most



Food	Contribution (%)
Chocolate spread	37.1
Aardappelen/pomme de terre	22.4
Tomato	14.7

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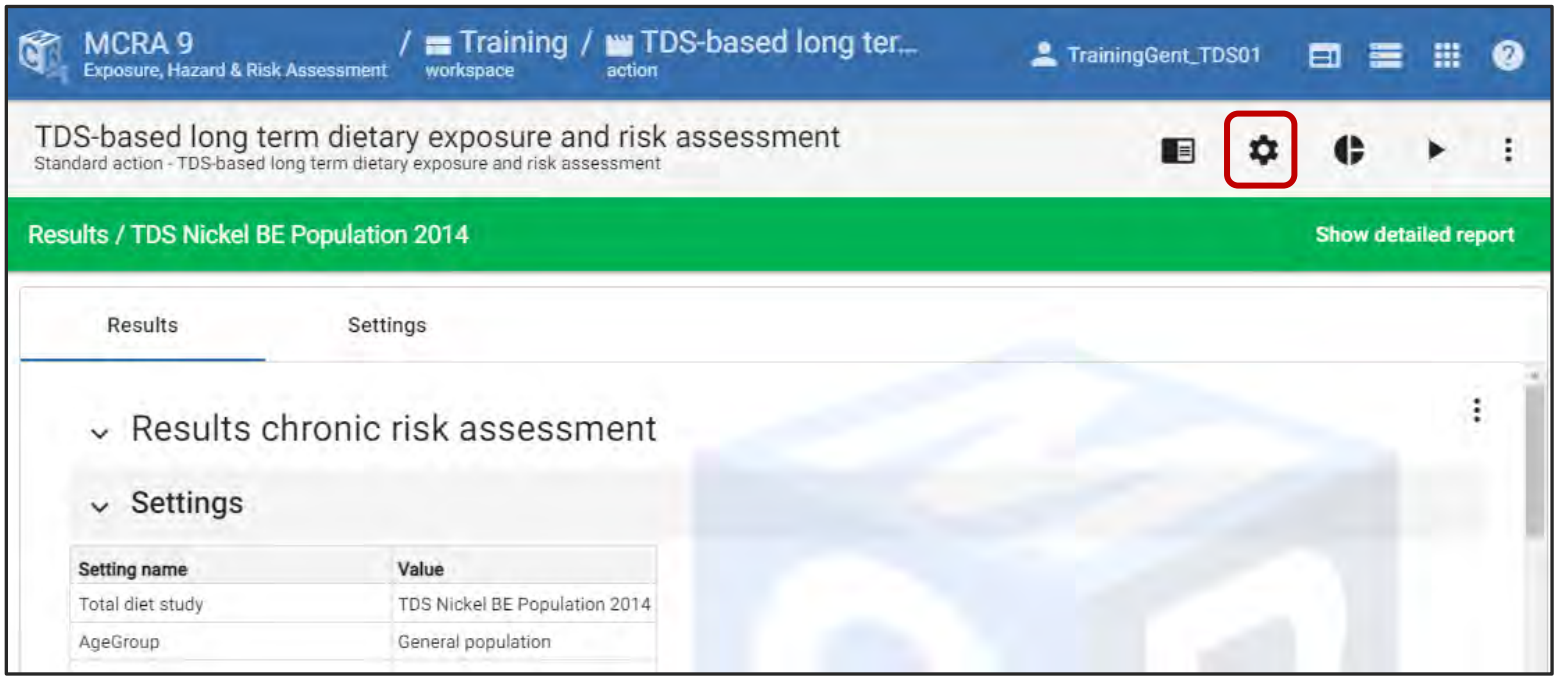
TDS Germany

- Go to Settings 



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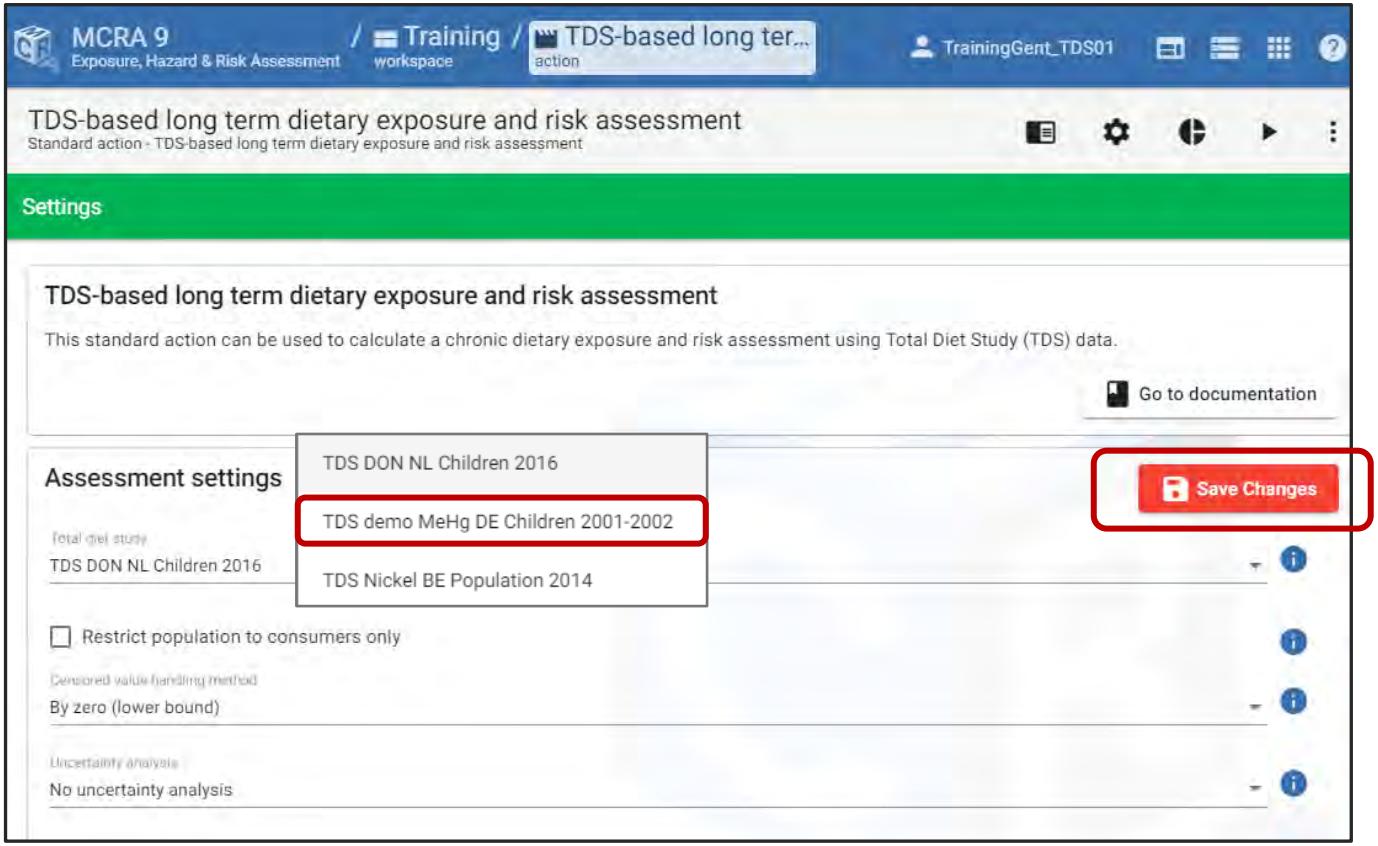
Inspect settings

- Select TDS demo MeHg DE Children 2001-2002
- Press **Save Changes**



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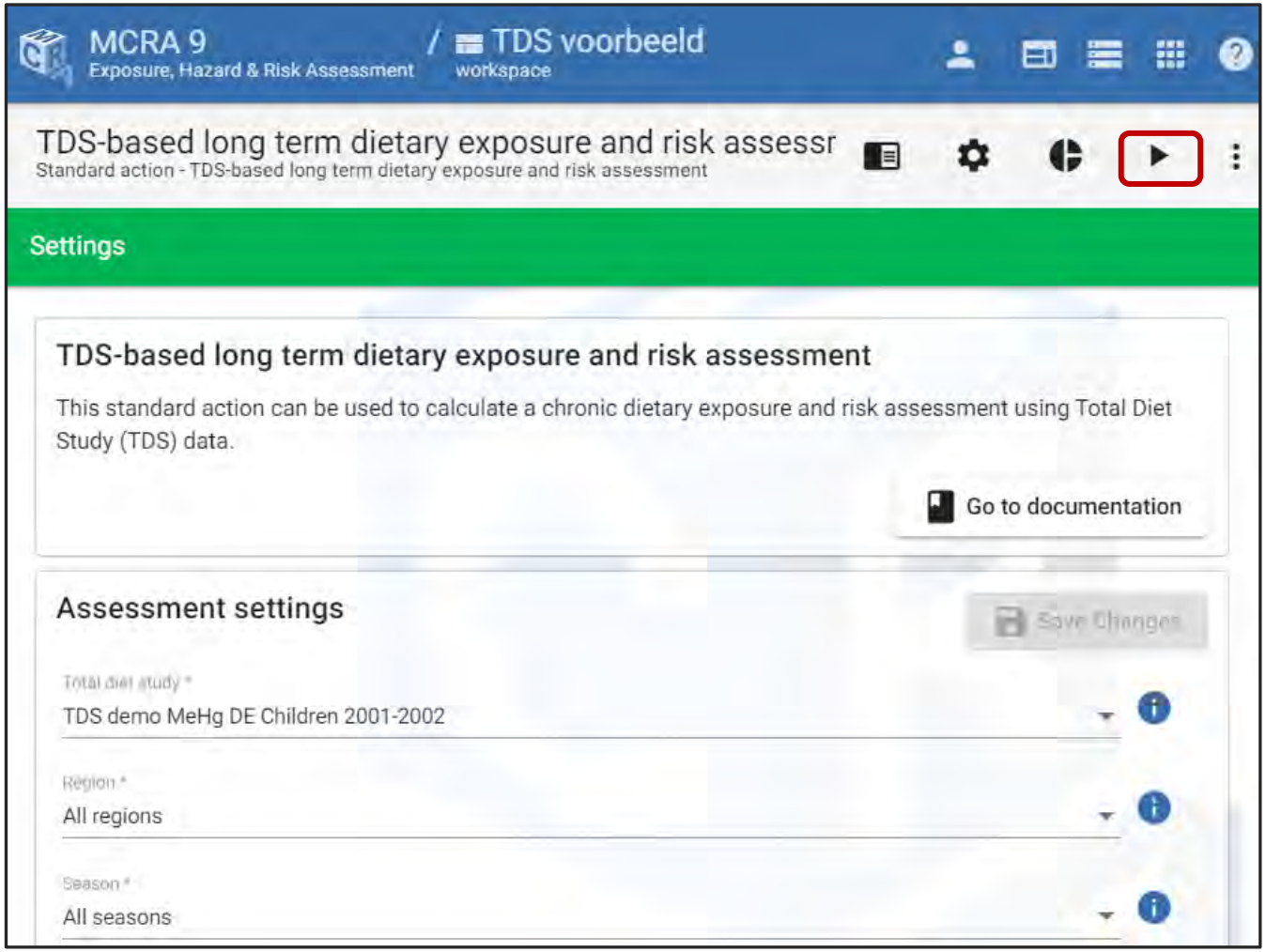
Press run

Press run ▶



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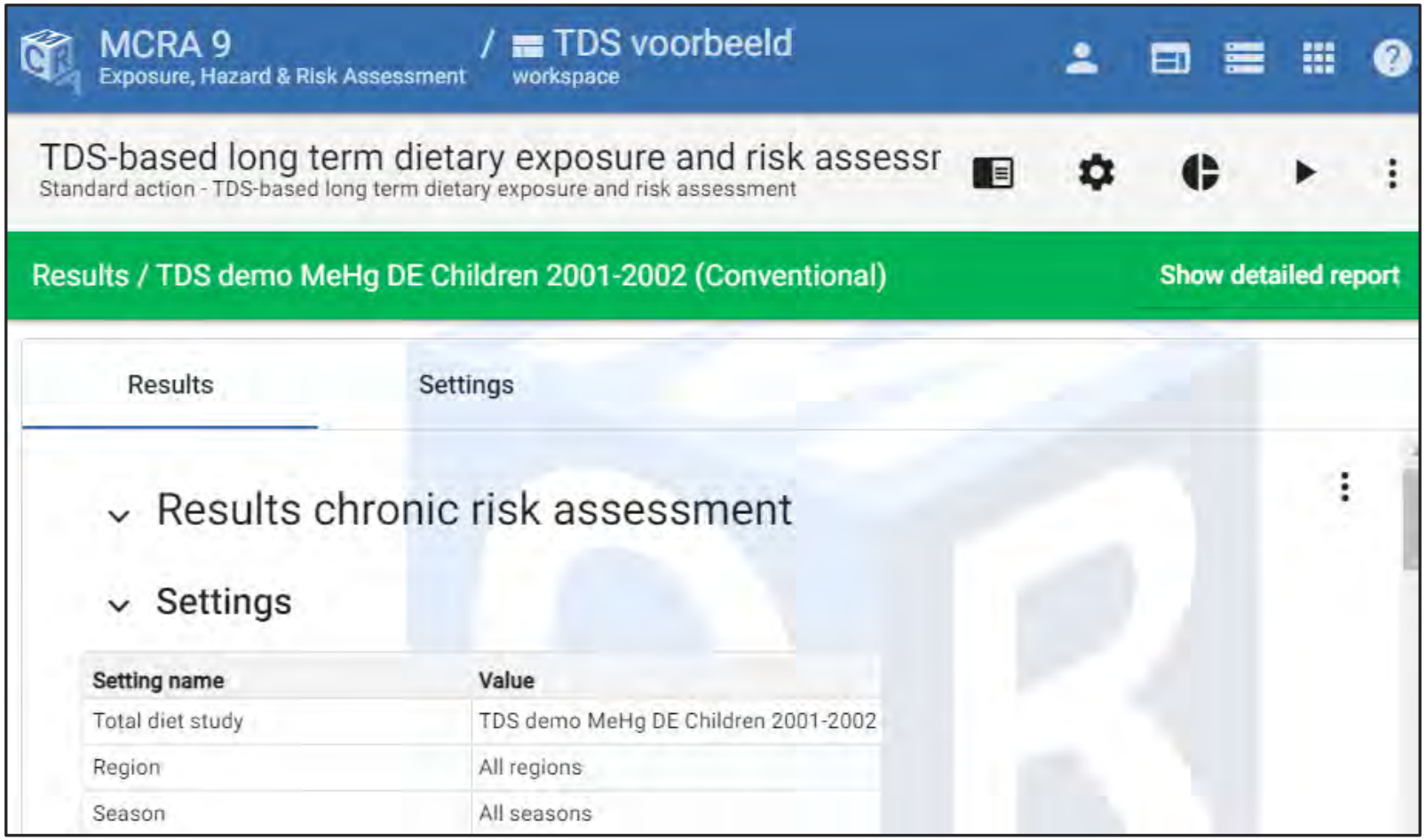

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Exercise E2

- Report the exposure at the 50- and 95-percentile.
- Which foods are contributing most to the dietary exposure at the main level?
- Which foods are contributing most to the dietary exposure at level 1?

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Exposure at p50- and p95

Percentiles hazard index.

Percentage	Exposure (µg/kg/day)	Hazard Index
50.00	0	0
95.00	0.02651	0.1427

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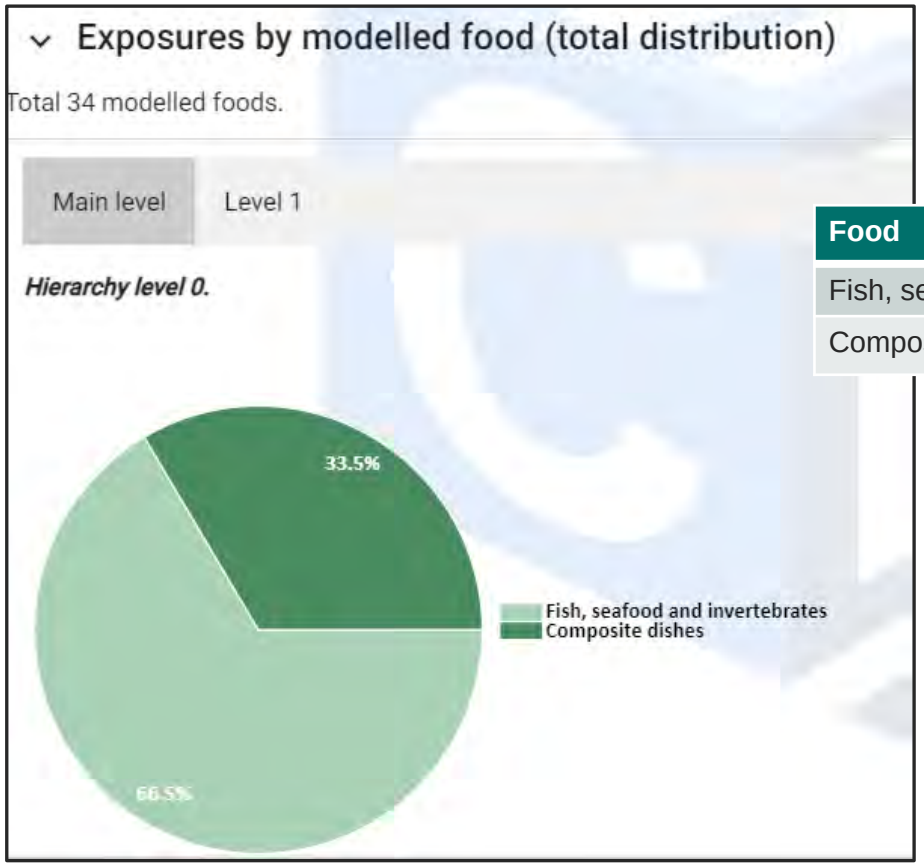
Foods contributing the most at main level



Food	Contribution (%)
Fish, seafood and invertebrates	66.5
Composite dishes	33.5

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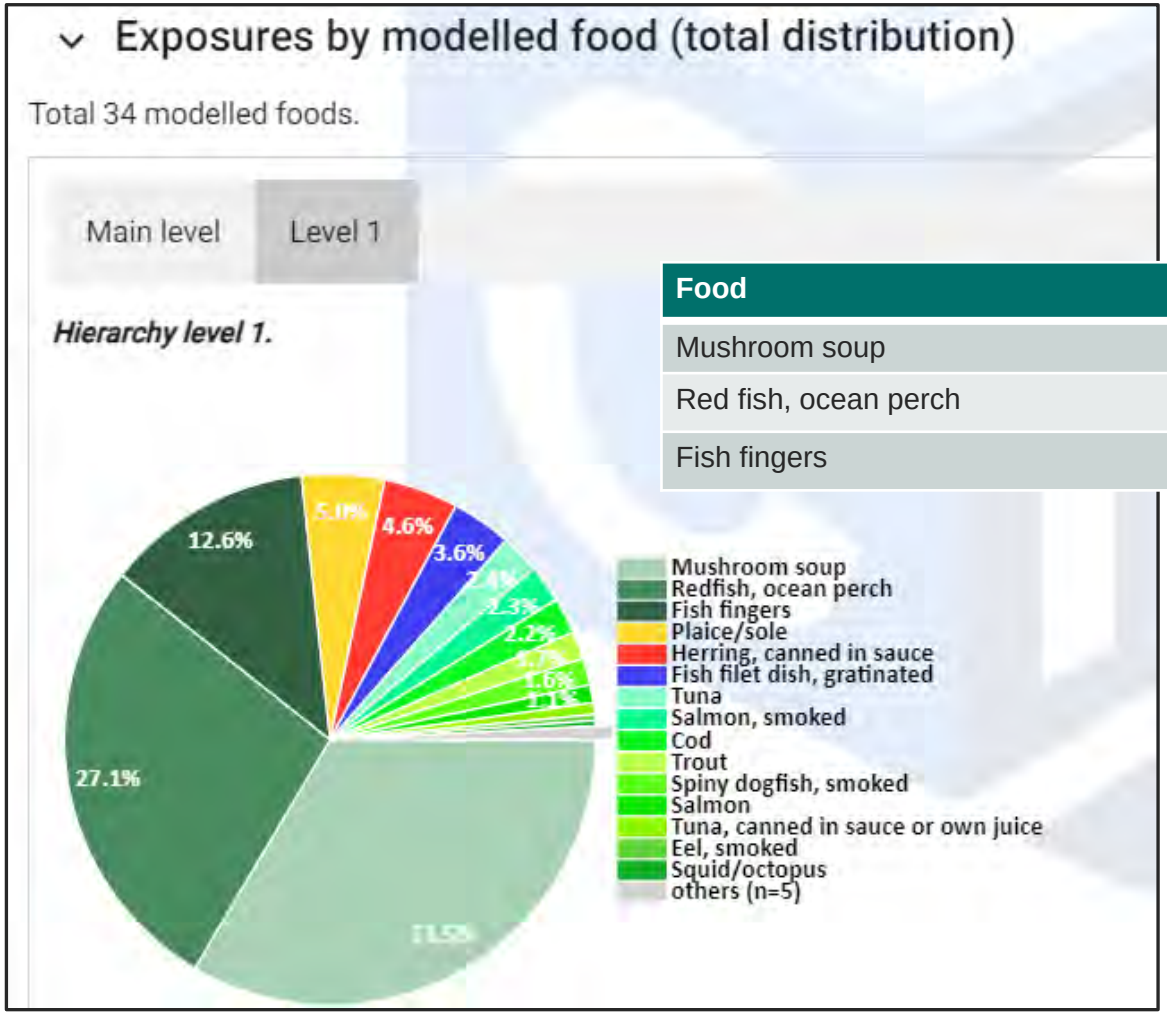
Foods contributing the most at level 1



Food	Contribution (%)
Mushroom soup	33.5
Red fish, ocean perch	27.1
Fish fingers	12.6

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Upload own data

- It is possible to organize your own TDS data in the standard formats (relevant for TDS centers)
- Use standard templates as agreed with the European Food Safety Authority (EFSA)
- Follow-up training for TDS centers on how to upload data to MCRA, if you are interested mail to MCRA support
- More functionalities for analyzing TDS data available in MCRA in full actions

FNS-Cloud Food Nutrition Security

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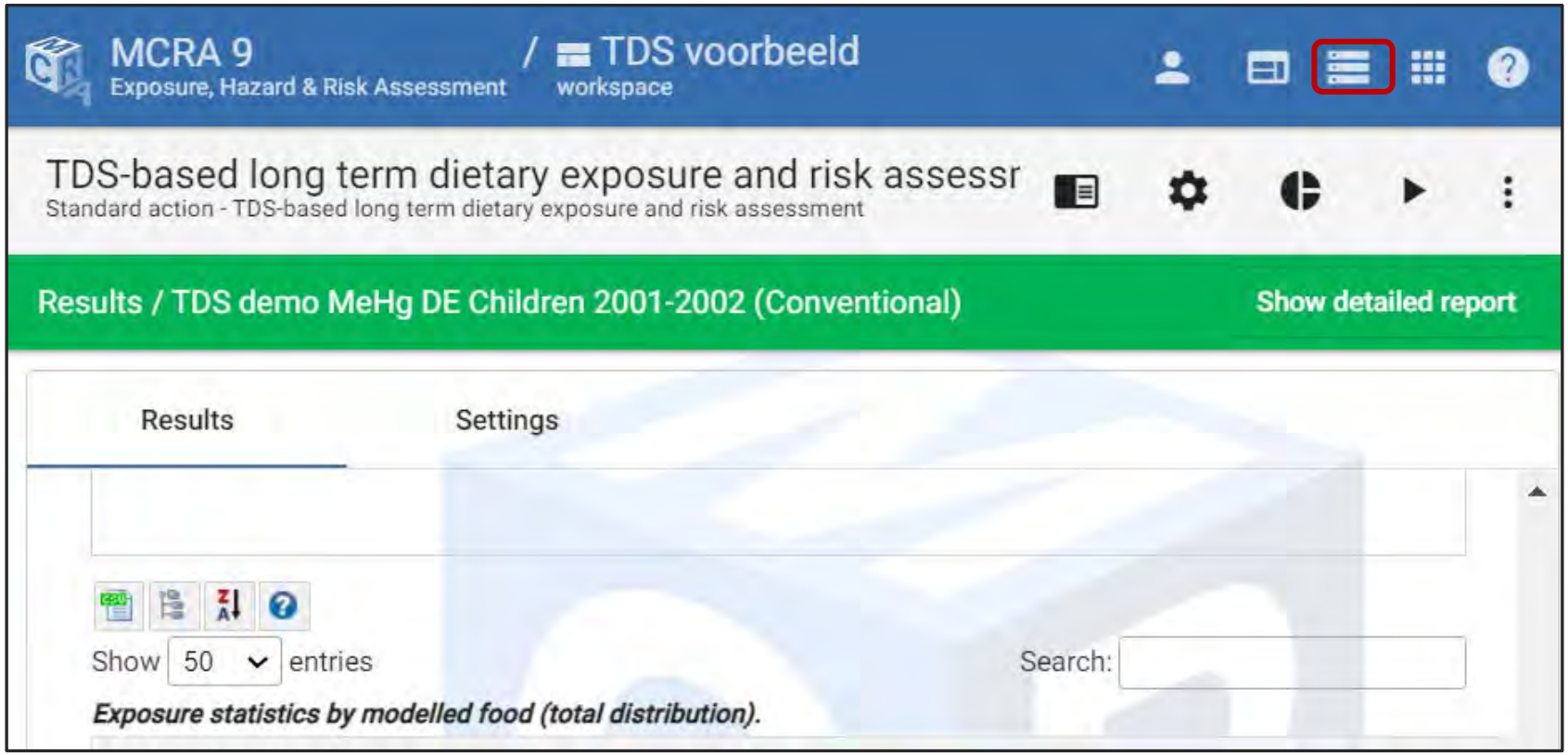
Upload own data (1)

- Select data



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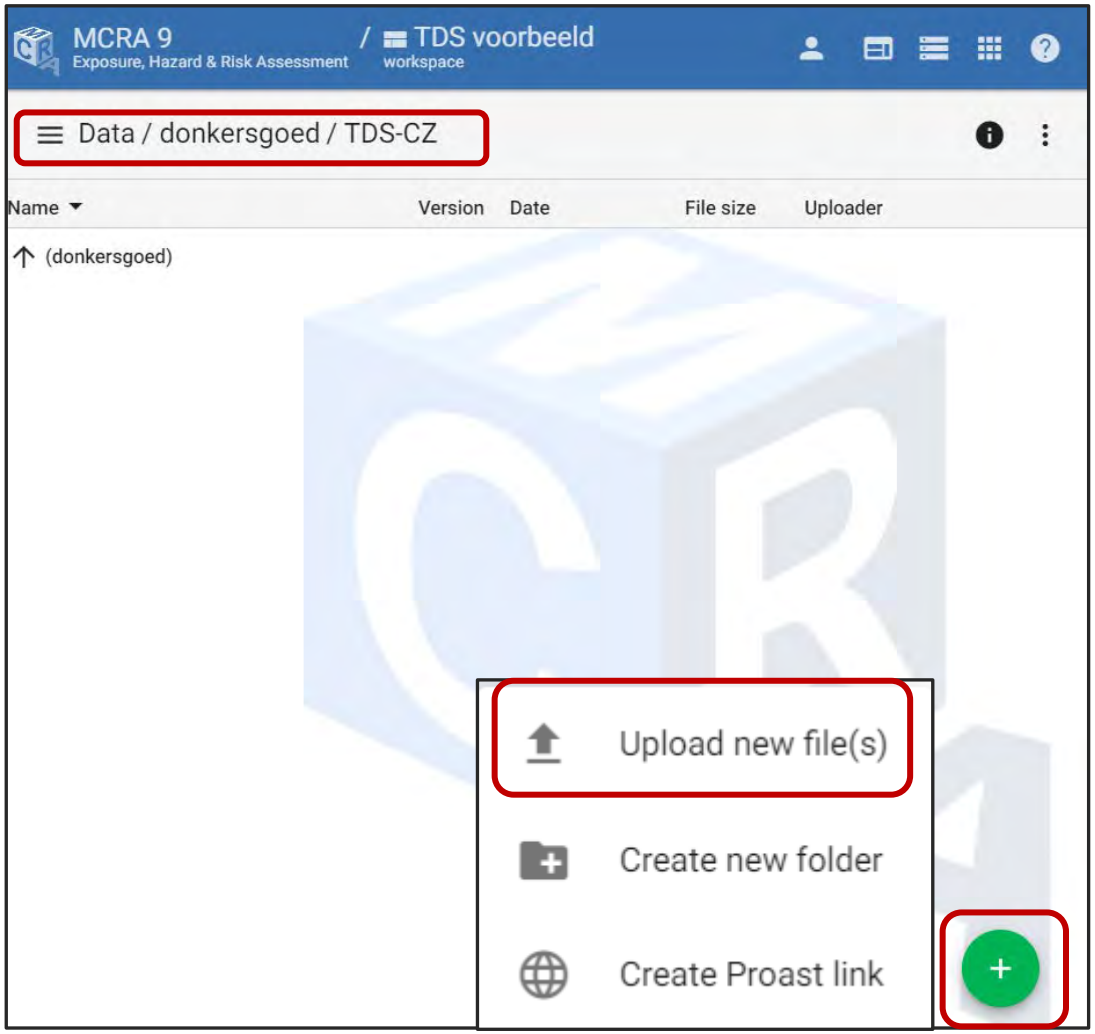
Upload own data (2)

- Browse to folder where you want to upload your data data
- Click on 
- Select Upload new file(s)
- Browse on your PC to the location where you stored your own data file



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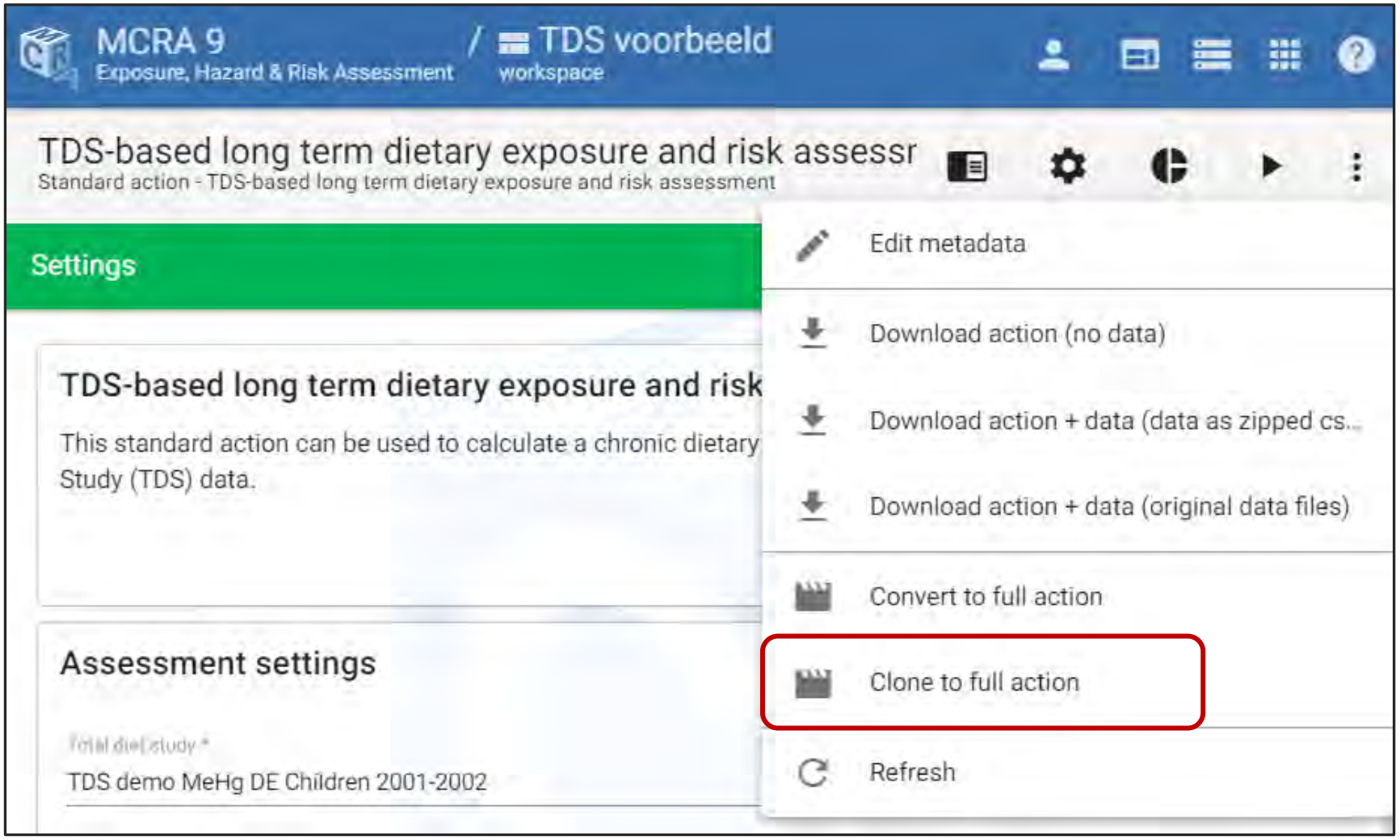
Clone to full action



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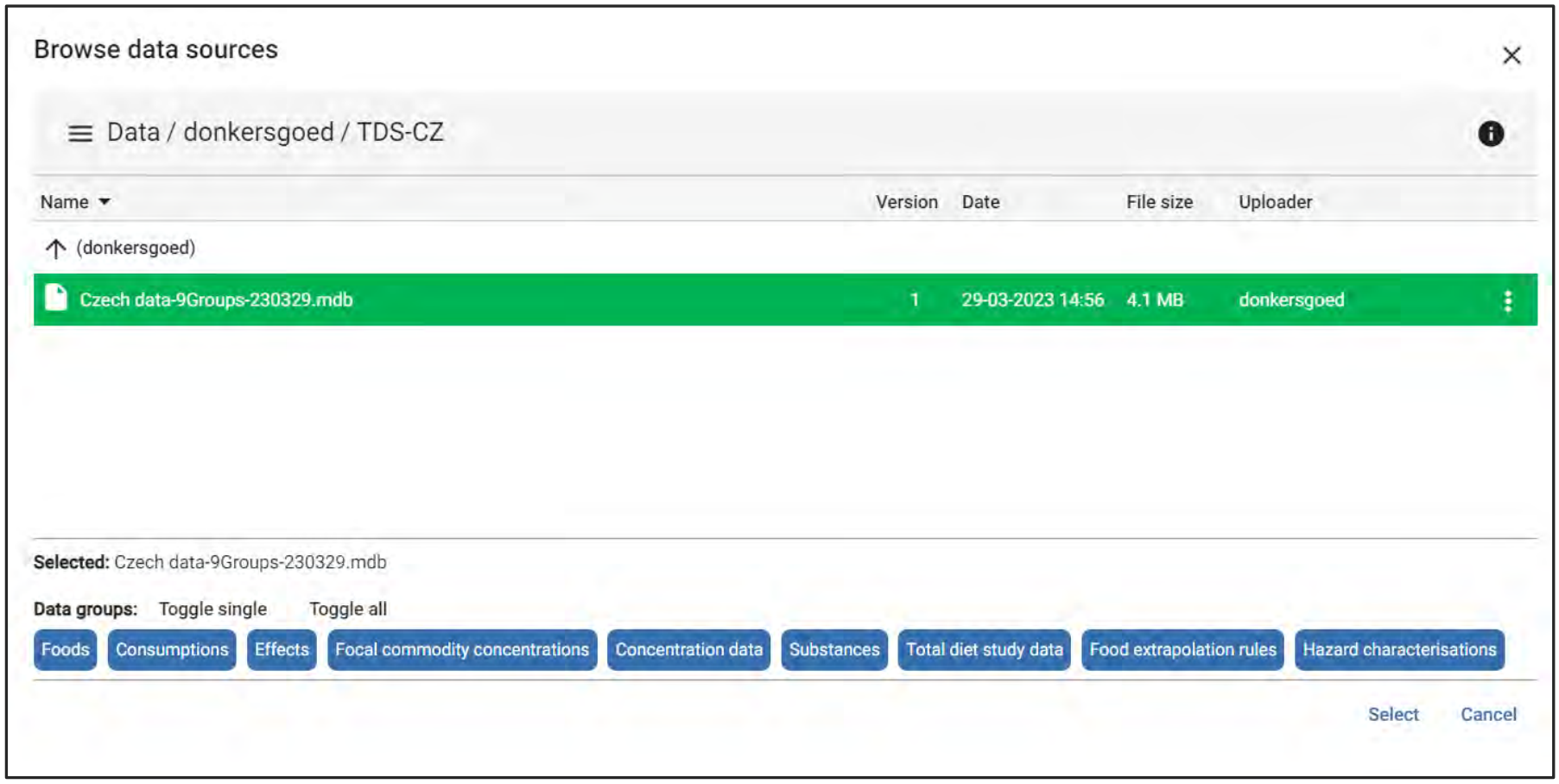
Use your own data



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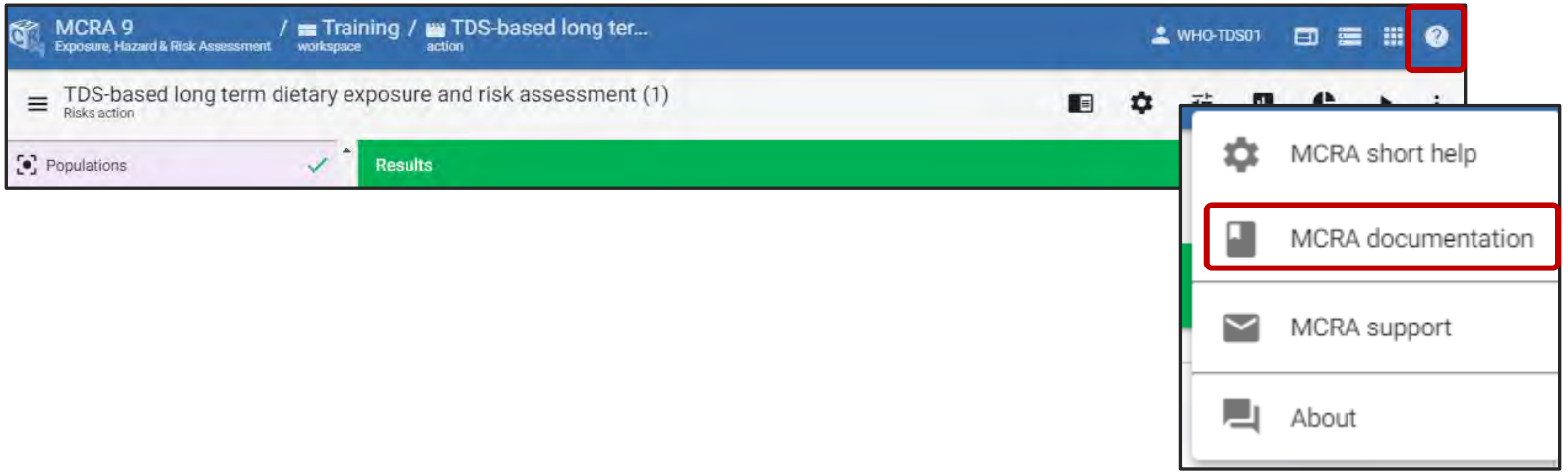
MCRA Documentation (1)

- By clicking on ? you can go to the MCRA documentation.



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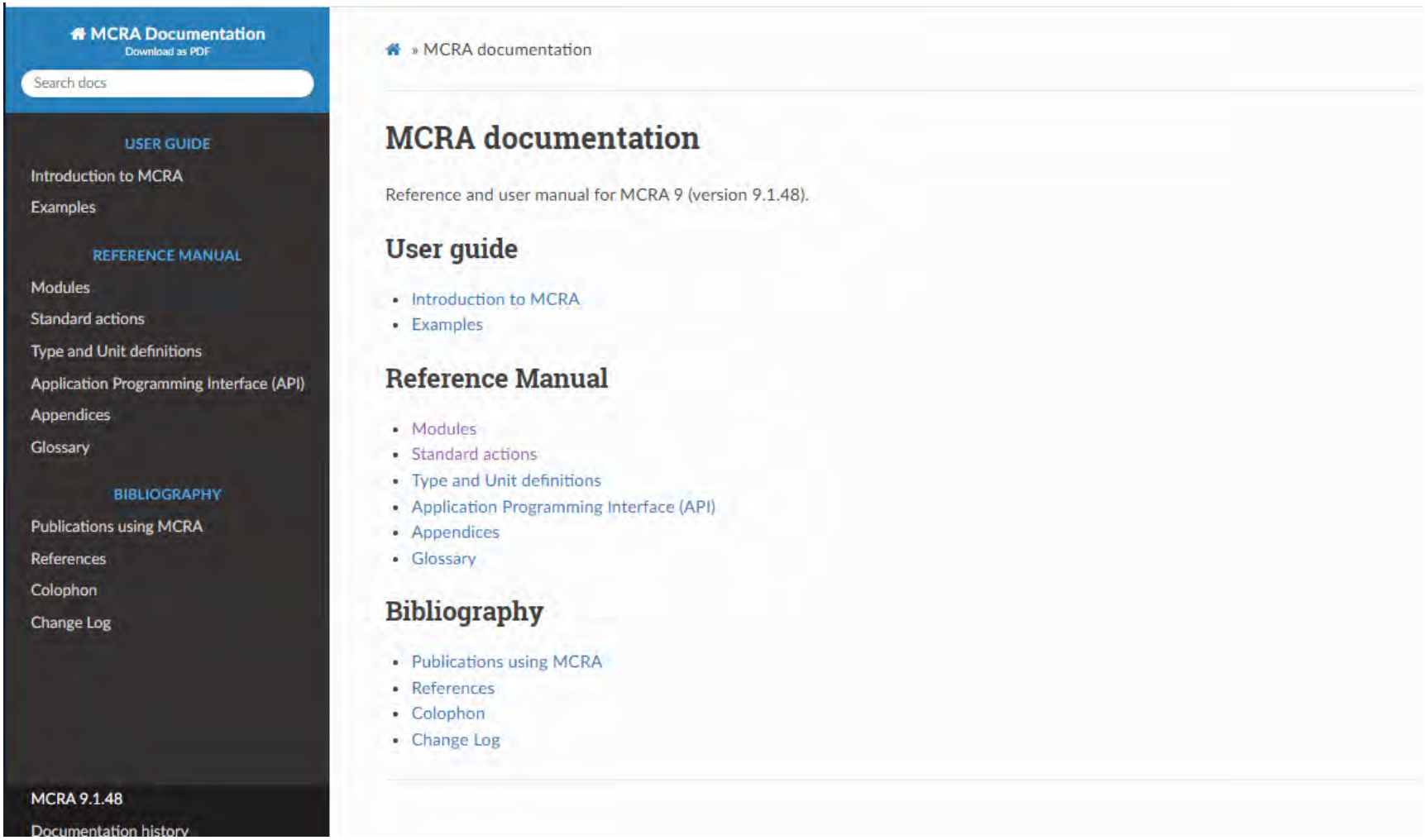
MCRA documentation (2)



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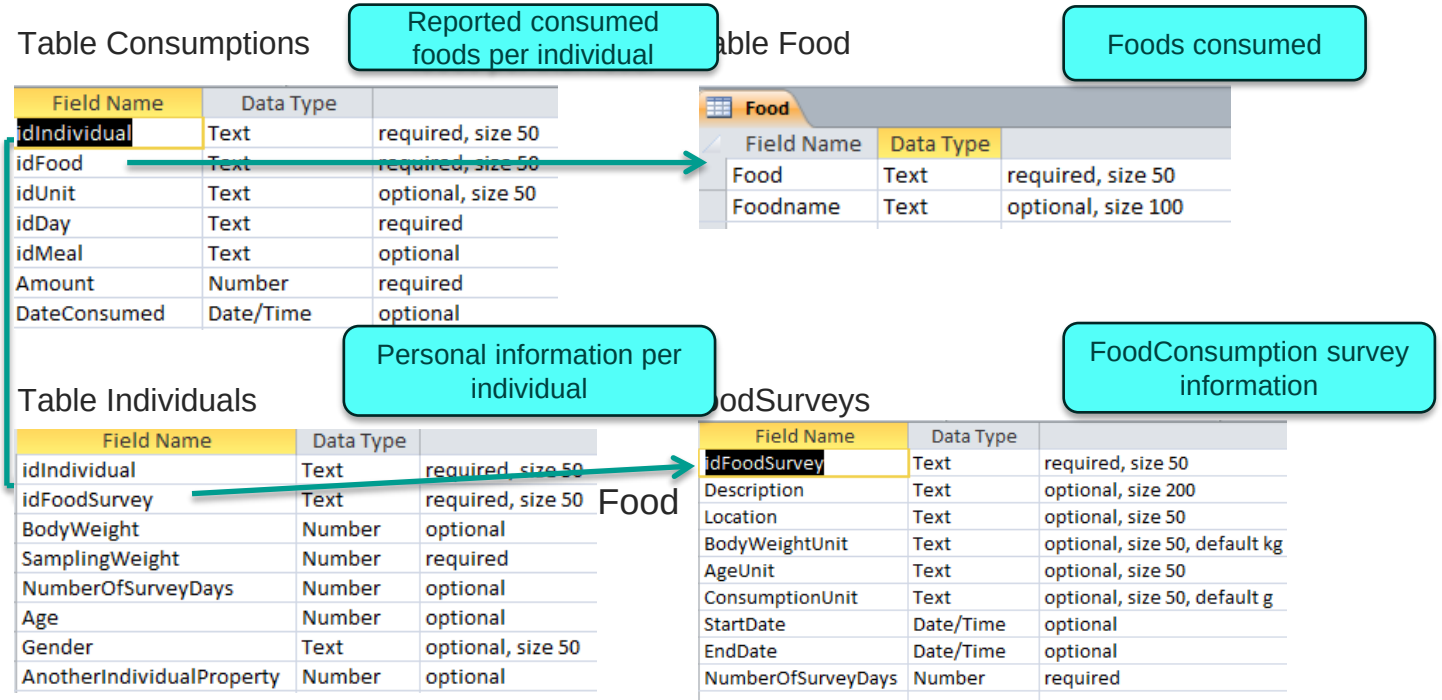
Consumptions - format



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Catalogues - Foods

Table Foods (format)

Field Name	Data Type	
idFood	Text	required, size 50
Name	Text	required, size 100

Table Foods (example)

A026F	Beerwurst
A00QG	Beetroots
A00AJ	Beignets
A01DT	Berries and small fruits
MENG.CRAC.12-18	beschuit, knackebrod
A01FE	Bilberries (generic)
A00AE	Biscuit with inclusions, filling or coa
A009V	Biscuits
MENG.KOEK.24-36	Biscuits
A00AB	Biscuits, oat meal
A03RA	Biscuits, rusks and cookies for child
A009X	Biscuits, sweet, plain
A00AA	Biscuits, sweet, wheat wholemeal
A034G	Bitter chocolate

The foods table is the main table of the food definitions. Includes all food codes present in Consumptions, ConcentrationsSSD, TDSFoodSampleComposition, FoodCompositions, ReadAcrossFoodTranslations, FoodHierarchy

FNS-Cloud Food Nutrition Security

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2. Concentrations - format

Table ConcentrationsSSD

ConcentrationsSSD

Field Name	Data Type
labSampCode	Short Text
labSubSampCode	Short Text
sampCountry	Short Text
prodCode	Short Text
sampY	Number
sampM	Number
sampD	Number
analysisY	Number
analysisM	Number
analysisD	Number
paramCode	Short Text
resUnit	Short Text
resLOD	Number
resLOQ	Number
resVal	Number
resType	Short Text

omposi

TDSFoodSampleCompositions

Field Name	Data Type
idTDSFood	Short Text
idFood	Short Text
PooledAmount	Number

The TDS food sample compositions table contains the descriptions of the TDS samples and specifications of the foods (with amounts) included in the TDS samples.

Concentrations data are analytical measurements of chemical substances occurring in food samples.

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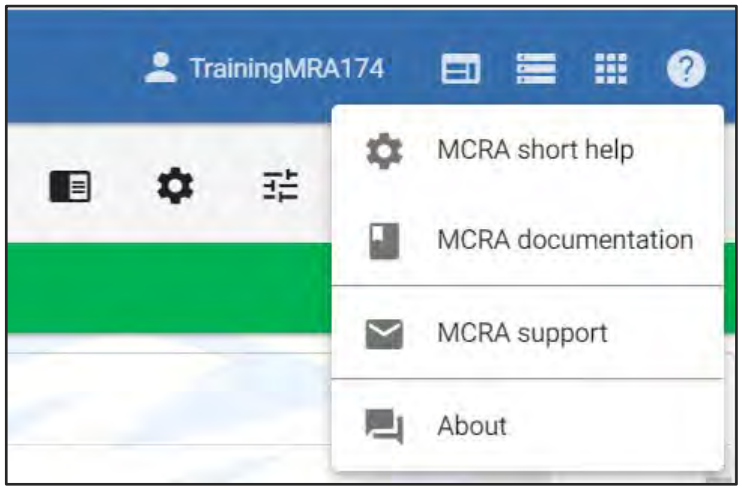
Demonstrator and helpdesk



- Overview data formats and standard data templates can be downloaded
- More training materials for risk assessment
- Support might be organized in user groups
  - community of practice that might wish to work as TDS centres
  - user groups that might be interested for other reasons
- Interested in future trainings sent a mail to MCRA support or contact RIVM

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Thank you for your attention!