

9th SDMX Global Conference

Empowering Data Communities

Session 9: SDMX Capacity Building Initiatives



Chaired by Abdulla Gozalov, UNSD, and Jonathan Challener, OECD

SDMX Global Conference 2023 | Kingdom of Bahrain

SDMX Capacity Building

Provided by the SDMX Sponsor agencies

And other international and national organisations

➤ African Development Bank, Asian Development Bank, UN Regional Commissions, IStat, ...

Provided as part of regular training programmes or specific projects

Provided at global events, in particular the SDMX Global Conference

Since the pandemic, e-learning courses increasingly a focus

In-person and online training

Eurostat

- SDMX Basics
- SDMX-RI Demos
- SDMX Converter
- Euro SDMX Registry

ILO

- SDMX for Labour Statistics

IMF

- eGDDS standard and related

UNSD

- SDMX for Sustainable Development Goals Indicators

SDMX Foundation e-learning course

ADB

United Nations | DESA Statistics

ONLINE TRAINING COURSE

Statistical Data and Metadata eXchange (SDMX) Foundation

LEARN and COLLABORATE

Participate in the online training. Registration will start on 13 February 2023.

REGISTER at <https://elearn.adb.org/course/view.php?id=486>

Questions? Contact us at sdmx@adb.org



sdmx

Scan to register



Introductory course developed by the Asian Development Bank in cooperation with UNSD, UNESCAP, and SIAP.

Original run in March-May 2022, with over 400 participants completing the full course.

Now available on a permanent basis.

SDMX for Sustainable Development Goals

SDMX-SDGs e-learning course

Developed by UNSD and the SDMX-SDG Working Group in support of data exchange and dissemination of the Sustainable Development Goals indicators.



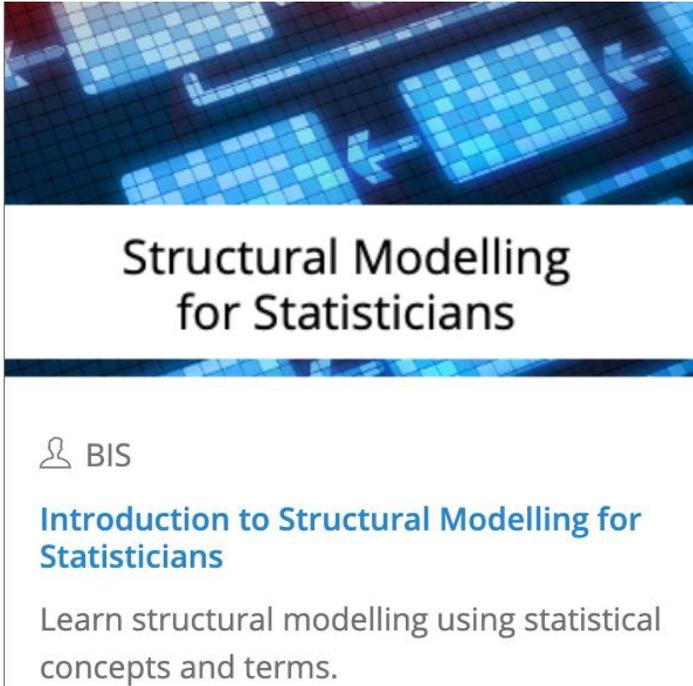
United Nations | DESA
Statistics Division



United Nations



sdmx.io e-learning courses



**Structural Modelling
for Statisticians**

 BIS

Introduction to Structural Modelling for Statisticians

Learn structural modelling using statistical concepts and terms.

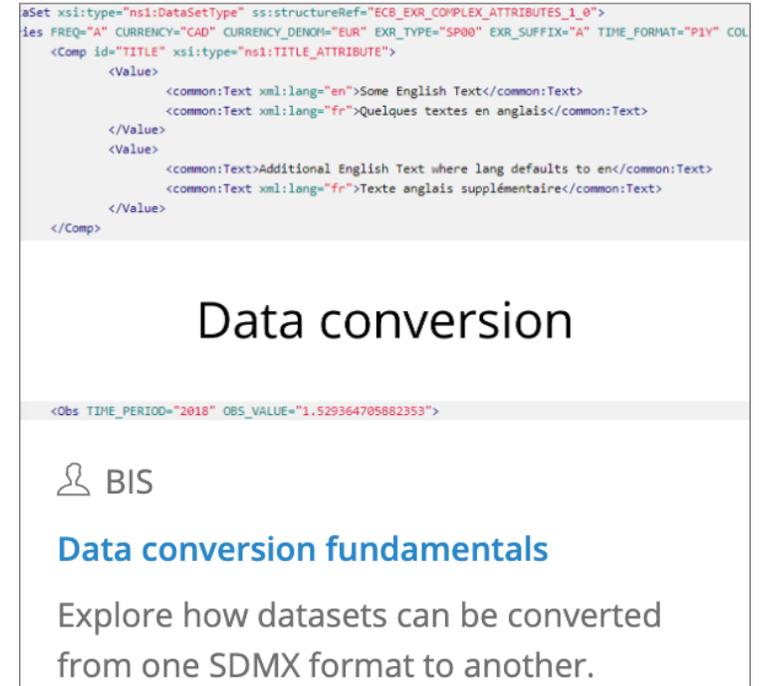


SDMX Structural Modelling

 BIS

Essential SDMX Structural Modelling

Transform and map statistical logical models to the SDMX standard.



```
aSet xsi:type="ns1:DataSetType" ss:structureRef="ECB_EXR_COMPLEX_ATTRIBUTES_1_0">
ies FREQ="A" CURRENCY="CAD" CURRENCY_DENOM="EUR" EXR_TYPE="SP00" EXR_SUFFIX="A" TIME_FORMAT="P1Y" COL
<Comp id="TITLE" xsi:type="ns1:TITLE_ATTRIBUTE">
  <Value>
    <common:Text xml:lang="en">Some English Text</common:Text>
    <common:Text xml:lang="fr">Quelques textes en anglais</common:Text>
  </Value>
  <Value>
    <common:Text>Additional English Text where lang defaults to en</common:Text>
    <common:Text xml:lang="fr">Texte anglais supplémentaire</common:Text>
  </Value>
</Comp>

<Obs TIME_PERIOD="2018" OBS_VALUE="1.529364705882353">
```

Data conversion

 BIS

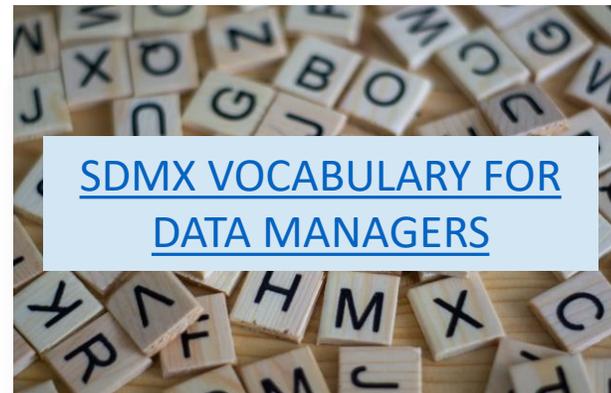
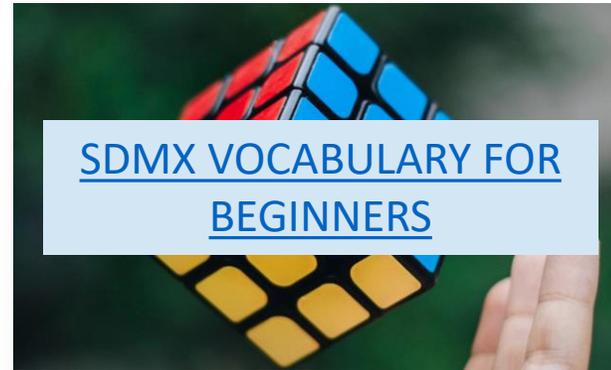
Data conversion fundamentals

Explore how datasets can be converted from one SDMX format to another.

Plus, recorded webinars:

- Fusion Metadata Registry – Validating Data
- Data Collection using Excel Templates and FMR

SIS-CC .Stat Academy e-learning courses



COMING SOON



Creating and applying mappings for SDMX and the .Stat Suite



SDMX Referential metadata modelling and dissemination



Disseminating data with an optimised end-user experience

COMING SOON

Bank for International Settlements (BIS)

- **Essential SDMX** and the Fusion Metadata Registry (FMR)
- **Template driven data collection** using the Reporting Templates feature of the FMR.
- Data often needs to be described (structural model) in different ways for various processes and actors. Learn how with **Recoding data using the SDMX standard and the FMR.**

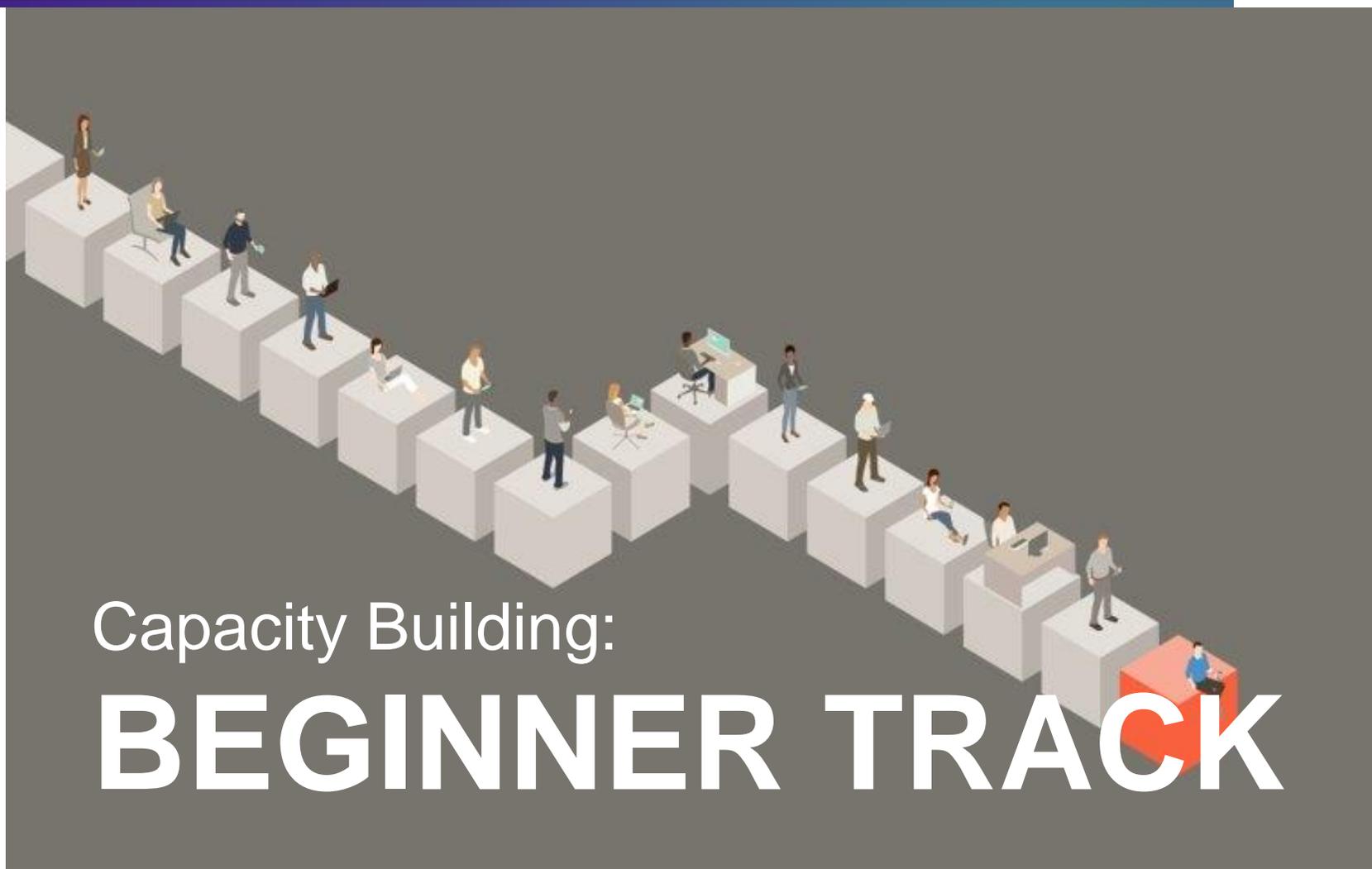
COMING SOON

SDMX IT Tools under development by the Asian Development Bank in cooperation with other agencies.

Domain-specific e-learning courses for National Accounts, International Merchandise Trade.

Coming sooner...

2 days (1-2 Nov) of capacity building by the end you will be able to model and disseminate a statistical data table.



Coming sooner...

2 days (1-2 Nov) of presentations, demonstration, and discussion (no hands-on), including “Ask an SDMX Expert” - a live SDMX User Forum.

Capacity Building:

ADVANCED TRACK



United Nations



SDMX User Forum – ASK, FIND, CONNECT

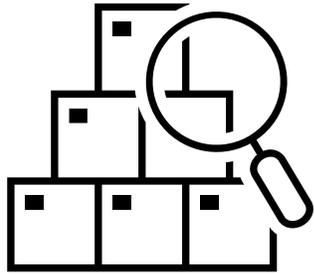
Officially launched at 11th SDMX Experts meeting, the user forum is...

a community of practice where users can **exchange ideas, ask questions and find solutions,**

providing opportunities for users to **connect with experts and peers** to share experiences related to the use of SDMX.



SDMX Roadmap 2025: Capacity Building Initiatives workplan



Training Inventory

Review of current capacity building activities and creation of a pilot 'single source of truth' training inventory on sdmx.org.

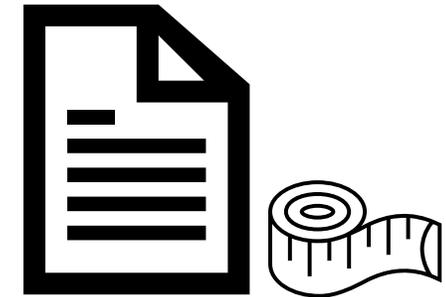
Ongoing



Questionnaire(s)

Further canvassing of sponsors and larger network of training providers, including web scaping, as input to extended training inventory.

Not started



SWOT Analysis

Carry out a SWOT analysis with participants during the SDMX Global Conference to identify key training areas to focus on.

Now

Objectives



BUILD ON RECENT SUCCESSES (E.G.,
SDMXUF) TO SHOWCASE THE
BENEFITS OF SDMX



LEVERAGE A COLLECTIVE EXPERTISE
FOR AN INCREASED NETWORK
EFFECT

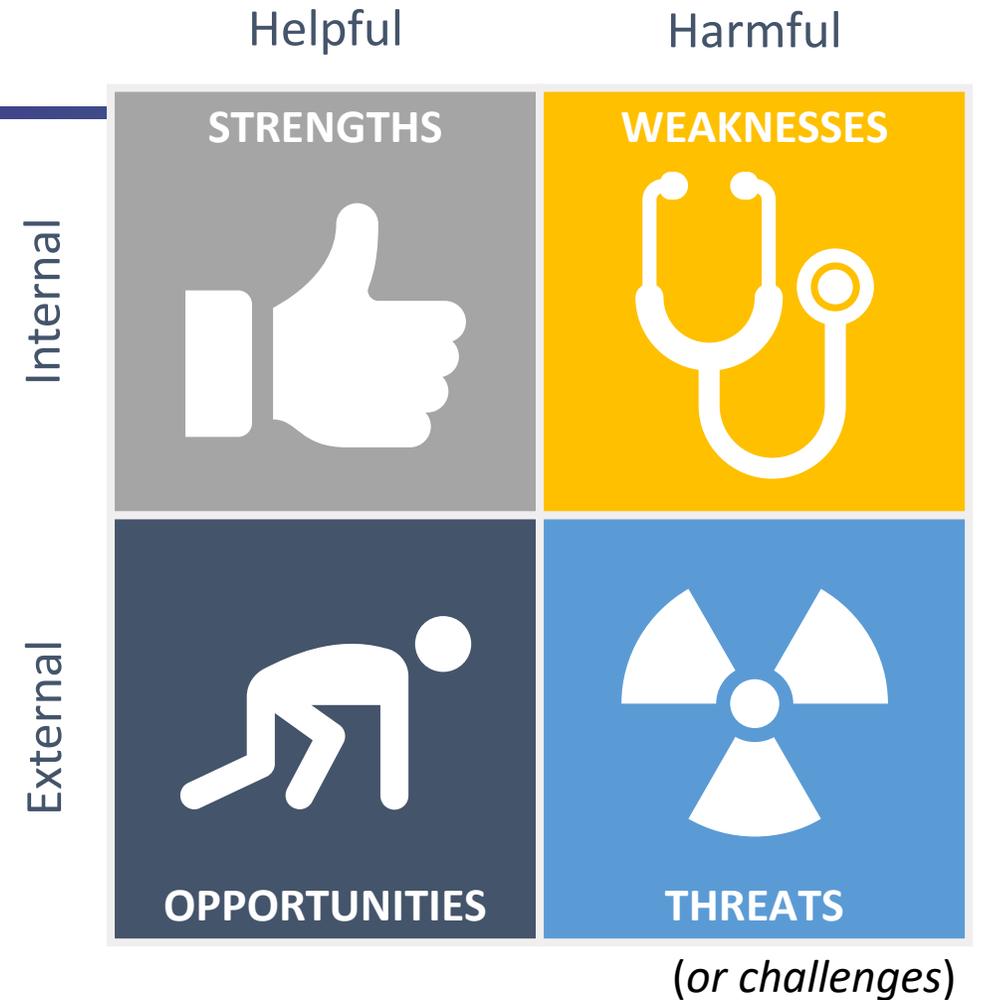


BETTER COORDINATE CAPACITY
BUILDING INITIATIVES FOR EFFICIENT
USE OF RESOURCES

SWOT (Live)

Live SWOT launched to gather feedback from participants (YOU) responding to the four areas:

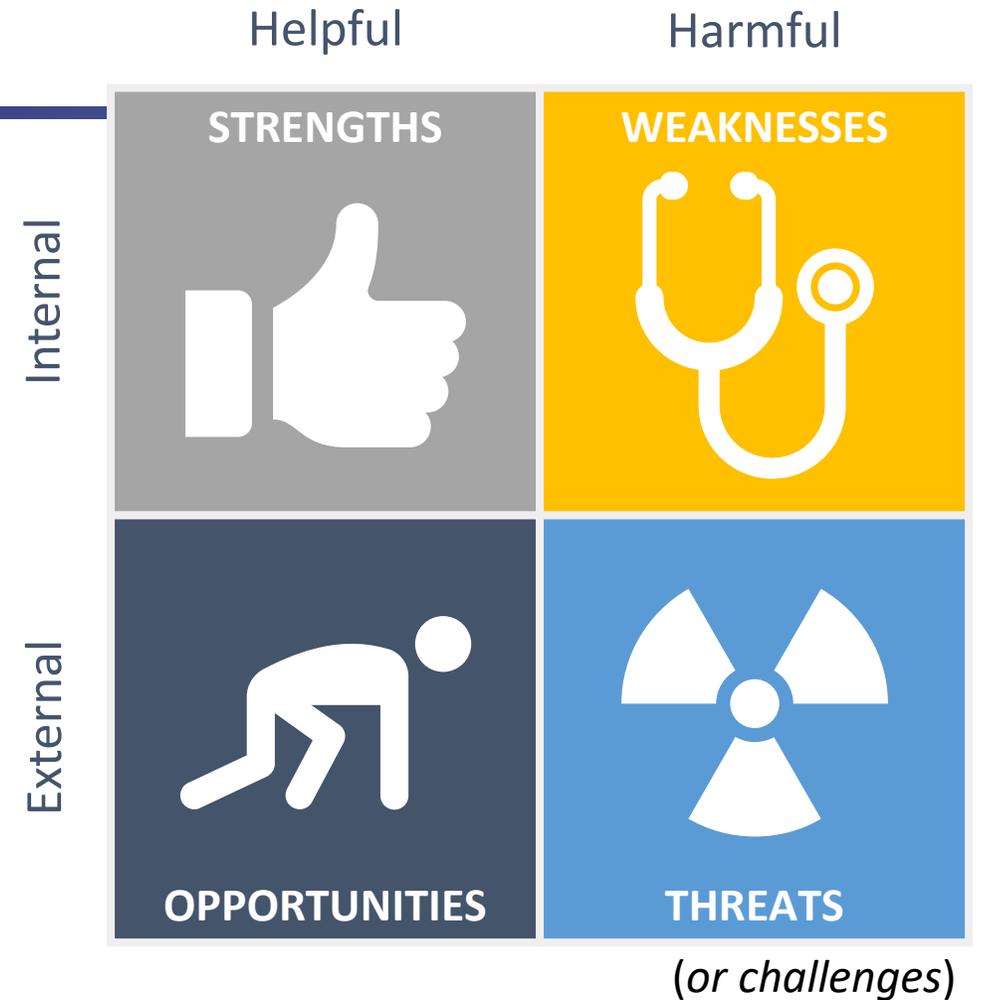
1. What are the main **Strengths** regarding SDMX training provided today?
2. What are the main **Weaknesses** regarding SDMX training provided today?
3. What are the main **Opportunities** for the SDMX Community regarding SDMX training?
4. What are the main (**Threats**) challenges for the SDMX Community regarding SDMX training?



SWOT (Live)

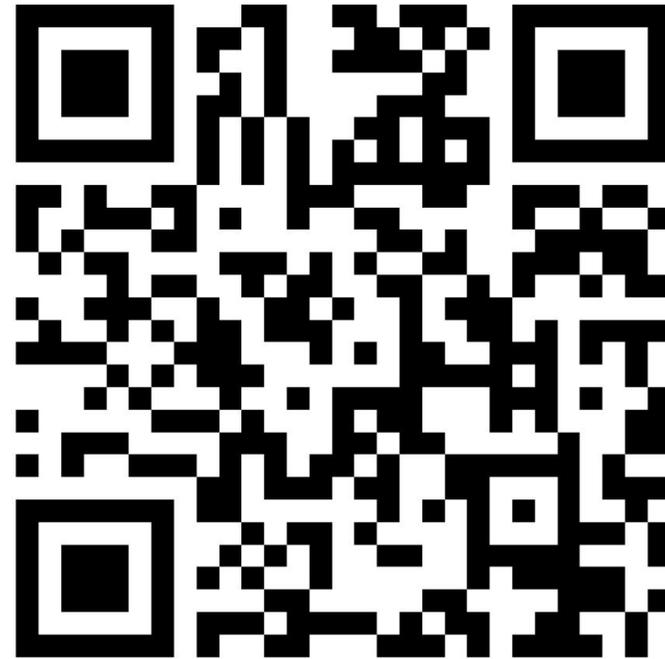
The SWOT will remain open during two of the three following presentations ~20mins.

Following the presentation, a final wrap-up with the preliminarily SWOT results presented followed by an initial reaction by each of the presenters on the results and what this means for Capacity Building activities going forward.



SWOT (Live)

**Scan the QR
or
use link to join**



<https://forms.office.com/e/hj1aDAaQJa>

Now let's discover some Capacity Building Initiatives...

SWOT (Live) Results

Live SWOT to gather feedback from participants (YOU) responding to the four areas:

1. What are the main **Strengths** regarding SDMX training provided today?
2. What are the main **Weaknesses** regarding SDMX training provided today?
3. What are the main **Opportunities** for the SDMX Community regarding SDMX training?
4. What are the main **(Threats) challenges** for the SDMX Community regarding SDMX training?



Strengths (initial results)

"There are growing online resources, even certification "

"Ease of access and availability"

"Free, available online, reasonably short modules that can be taken in half a day."

"Useful for all kind of job profiles (from data users to sdmx experts)."

"Open source and free to access tools allows users to learn by practicing with no need pf purchasing software licence"

"Comprehensive curriculum on SDMX info model. Increasingly available online. Geared to non-IT people."

"Much more offering and more modern then even 3 years ago"

"Learning from experiences of other organisations that have implemented sdmx"

"Focused and helpful to up skills statisticians "

"Integration of all sources and types of data to be readable and accessible to ease the analysis of data.

Unifying and modernizing the data "

"Standardization "

"Up to date, Productive"

Weaknesses (initial results)

- "Not sure that development of training is coordinated - maybe duplication, lack of material coherence"
- "Lack of diversity among instructors and seemingly a barrier to access for people from MENA region"
- "Difficult to know that they exist: you know they exist when you are already part of the SDMX community but for an "external person" it is more difficult to find out that such modules exist for free. For not very IT proficient users, online training may be not the best choice."
- "Not always easy to find training in correct version of SDMX"
- "Lack of centralised repository of resources, courses and resources are distributed across different platforms and it's not always easy to get the right learning resource for the right audience"
- "The mentoring and coaching part seems less structured. Is there a structured and accessible offering for SDMX mentoring and coaching?"
 - "Not too comprehensive SDMX certification program, important for CV and employer"
 - "The need for more specific training related to our work "
 - "Present in other languages "
- "Not always considering the bigger picture, basic level, too theoretical."
- "It is hard to navigate which ones to do first, how to get started."

Opportunities (initial results)

"Communication with international institution anytime and anywhere"

"Coordinate development. Further development of accreditation"

"Bigger capacity for data sharing"

"Possibilities to advertise SDMX and the associated training to universities. To publicize these trainings as certification for a standard used internationally could be appealing for many students who want to enrich their CVs. "

"Learning paths to get certifications (data modeler, producer, steward ...)"

"Perhaps peer learning through the user forum could be promoted. Also, on the job learning while using tool. Sdmx.io could be a great context where the learning needs of data scientists and data engineers as well developers of tools could be addressed specifically."

"Create a repo listing all available and upcoming training resources"

"Expand regionally this will accelerate adoption"

"Additional training on data modeling with more comprehensive examples. Referential metadata content"

"Enlarge sdmx "market" making available trainings about available sdmx tools "

"The community is huge, so could be lot of contributors. There could also be mentors to help people alongside the trainings."

(Threats) challenges (initial results)

Communication does not always have quick responses"

"Large number of resources can be intimidating to beginners "

"It remains an "internal" training limited to a reduced circle of people."

"Keep training documentation up to date and make it easy to find the needed training per user profile."

"Reach and support small /less technical institutions "

"We are perhaps still moving slowly in the area of capacity building. Also, the data producer segment covers a number of variant profiles with possibly different needs."

"Not enough documentation especially on SDMX tool interoperability "

"Resistance from business and data manager or even the it and statistical team when they are used to such a way of retrieving data. It is difficult to change habits and routines or make people switch and learn new methods."

"The content is complex for beginners which can be intimidating"

"Training not tailored for a wider audience "

"Many different organizations involved, so could be hard to centralize the tools to have one place for people to get started."

9th SDMX Global Conference

Empowering Data Communities

Thank you for your attention!

SDMX Global Conference 2023 | Kingdom of Bahrain

