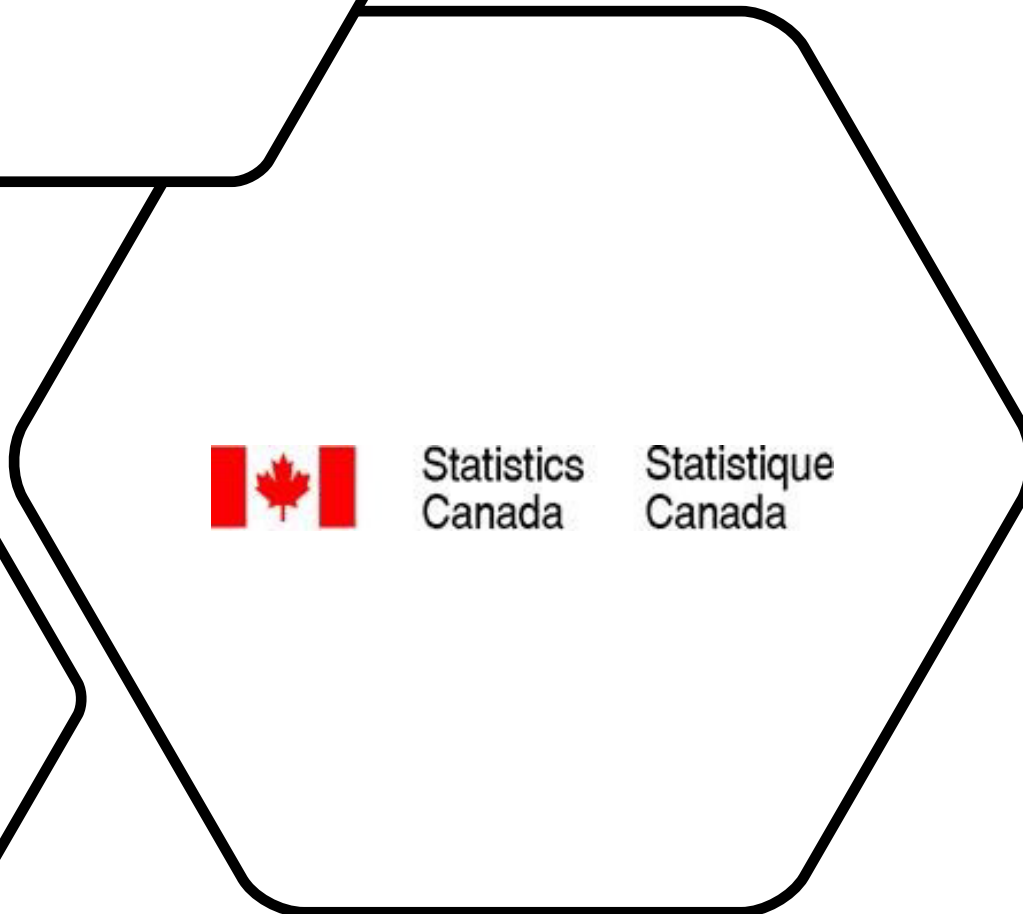


# Unleashing international training potential with a *ModernStats Carpentry*

Presented by Eric Anvar (OECD) and  
Kate Burnett-Isaacs (Statistics Canada)

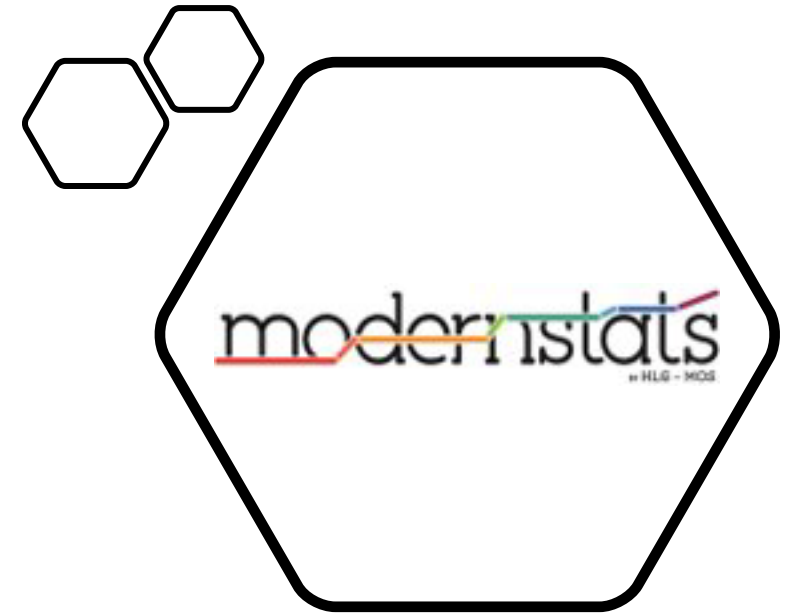
Workshop on Human Resources  
Management and Training

October 12, 2022



# NSOs share similar challenges

- Offering learning and development opportunities: a pillar for the *Future of Work*
- Need to constantly adapt skills to evolving technologies and data market

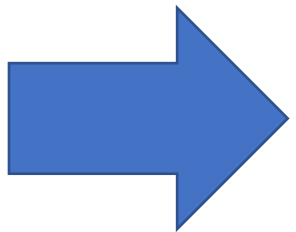


...And yet: mechanisms to share, reuse or co-create learning experiences *at scale* do not exist – between NSOs, or even within NSOs or NSSs

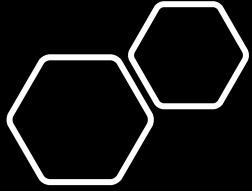
# Main barriers identified

## Absence or limited...

- ...common understanding of the training needs
- ..shared methodology to create learning content
- ..forum or community for trainers and academy managers to exchange practices, share on priorities
- ...decision to co-invest in training efforts.



Removing those barriers defines the notion of 'Meta-Academy'

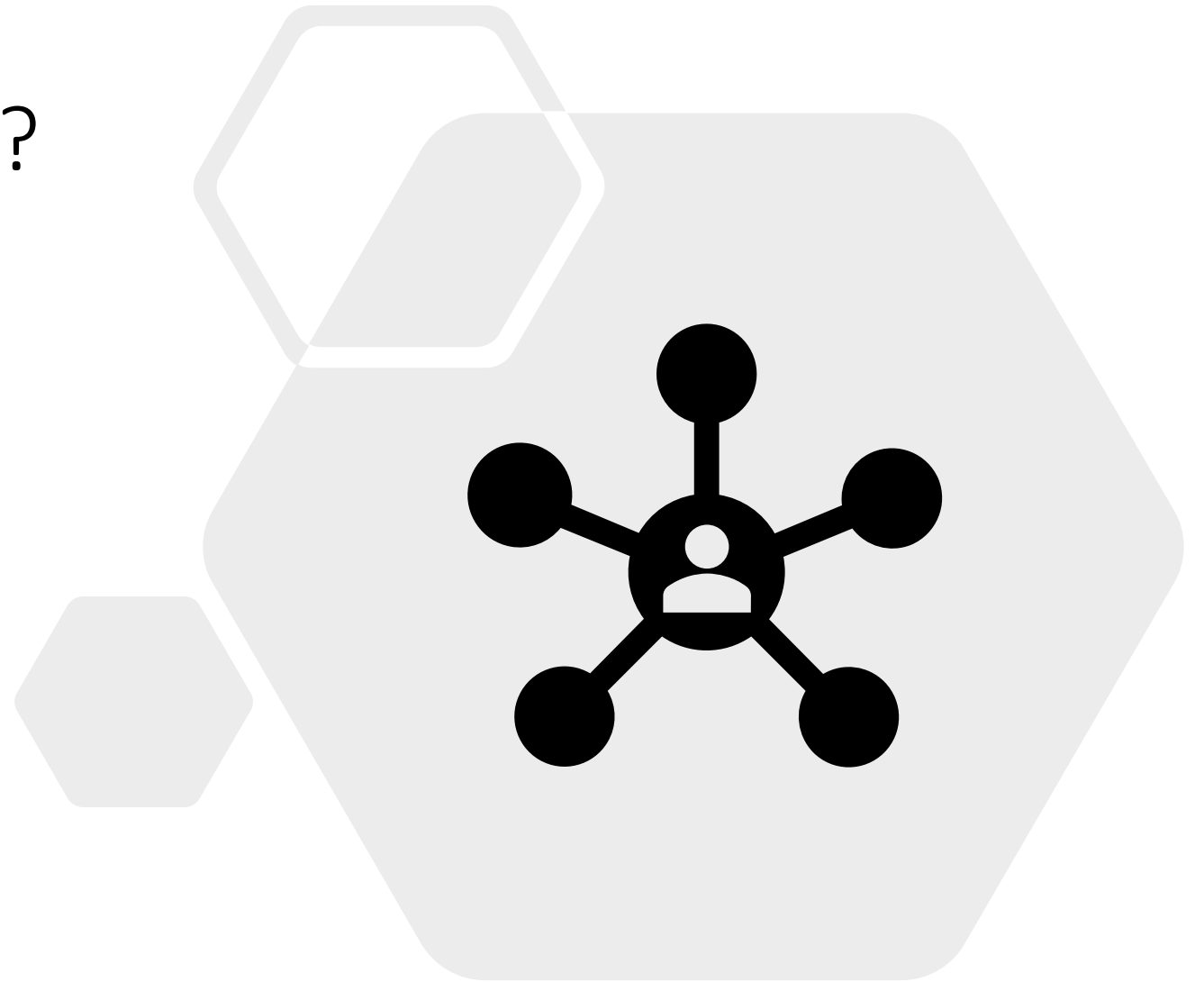


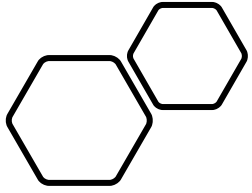
## Key takeaways from the Meta Academy project

- **On the pedagogy:** some initiatives focus more on self-learning approach; others on synchronous learning experience with a coach (onsite or online).
- **On the content:** some initiatives take a broad approach at covering all regular official statistics activities; others are very much focused on data science or data intensive scientific activities
- **On the audience:** some initiatives target a national audience while others aim to grow an international network
- **On the platform:** all initiatives crystallise around a digital platform through which training content and services are created and traded

# Where do we go next?

- **The most promising avenue to explore is to develop a *ModernStats Carpentry* under a partnership between the HLG-MOS and the Carpentries organization**





# Who are the Carpentries?

## *Existing Carpentries projects*

## *A new Carpentry?*



**Data Carpentry workshops** should contain the following:

- A lesson on data organisation
- Any three other lessons from in the same domain in the Data Carpentry curriculum



**Library Carpentry workshops** should contain the following:

- Any three lessons from the Library Carpentry curriculum



**Software Carpentry workshops** should contain Software Carpentry lessons on:

- The Unix Shell
- Version Control with Git
- A programming language (R or Python)

+

## **ModernStats Carpentry**



*'Our vision is to be the leading inclusive community teaching data and coding skills to produce relevant, timely and granular official statistics.'*

*A community of 4000 certified trainers; 90000 learners participated in 3500 workshops from #100 members (universities and libraries mostly).*

# What is their 'Business Model'?

01

The Carpentries are a non-profit, registered in the US, funded by membership and workshop fees, and grants from donors.

02

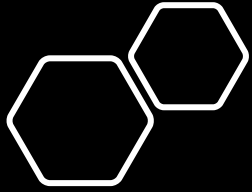
In order to engage with the Carpentries, the HLG-MOS and/or member organizations will need to pay a membership fee.

03

However, in the context of a *ModernStats Carpentry*, participating organisations could organise as many trainings as they wish

04

All Carpentries content are open and free under CC license; training substance and materials are stored in Github



What do we  
get for our  
money?

An existing platform to host training material

A framework and support to develop training

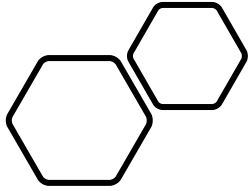
A methodology to train trainers and a certain  
volume of trainers trained per year

Access to a community of 4000 certified trainers  
and maintainers (mainly from academia), to  
peer review training contents, exchange good  
practice, reuse existing content etc.



Output: A programme dedicated to  
modernisation of official statistics





# How does ModernStats Carpentry help us?



## Methodology to (co)create training

The Carpentries have a standard Lesson Program Incubation to create new training  
Their model emphasizes quality assurance of lessons, through an iterative approach based on experience gained with the other Carpentries initiatives;



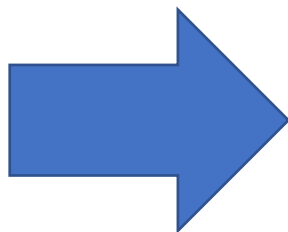
## Forum for trainers

'Train the trainers' programme and mentoring groups results in the development of a consistently skilled network of trainers  
ModernStats trainers would be added to an existing network of 4000 trainers

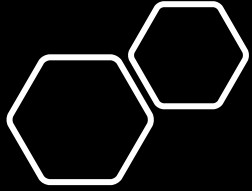


## Evolve with the industry

Through the community of trainers and maintainers that includes academia and industry partners  
The Carpentries has a requirement and method for training to be kept up to date



**Outcome: unlock national programmes and connect them as an open ecosystem**



# The ModernStats Pilot in 2023

## Part 1: Creating Lesson Program

- A repurposing of existing Carpentries content for a NSO specific persona within statistical agencies.
- This content will then be translated into French in order to demonstrate the international outreach and applicability of the Carpentries curriculum.
- This work package will explore putting a traditional official stats course (like price indexes or GDP) into the Carpentries model.

## Part 2: Establish Business Model

- To determine a cost effective and sustainable business model for the HLG-MOS and its members to benefit from the Carpentries model and products in the HLG MOS context.

# Key takeaways

01

This is an innovative approach to thinking and working with training across international borders.

02

Can create efficiencies in the development of high quality, standardized training within and across NSOs

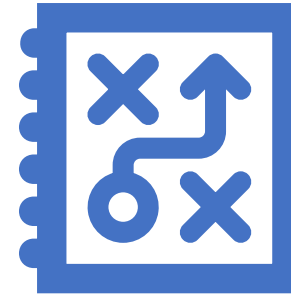
03

There are short and long term efficiencies and unleash the creation and use of open training assets across NSOs.

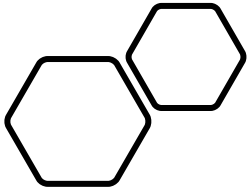
# We would like to hear your thoughts



Do you see your NSO contributing to  
ModernStats Carpentry?



Would your NSO leveraging the  
ModernStats approach and content?



Questions?

Thank you

