

Draft Programme

National Capacity Building Training on Statistical, Methodological and Computational aspects of the Productive Capacities Index (PCI)

(Harare, Zimbabwe, 6-7 May 2024)

The main objectives of the statistical training are:

- I. To build statistical capacities of Zimbabwe through training of national statistical experts to compute and interpret country-specific PCI.
- II. To share statistical and methodological as well as computational aspects of the PCI and to expose national statisticians to UNCTAD's Productive Capacities Index (PCI).
- III. To enhance the capacity of Zimbabwe's statistical experts to initiate processes to enhance the validity of the results for Zimbabwe.
- IV. To explore how the PCI can be used in national statistics and policy-making processes.
- V. To foster a network of national statisticians who work and exchange on PCI.
- VI. To collect feedback for the Statistical and Technical Advisory Group (STAG) of the PCI.



To participate in the training sessions, all trainees must have access to a computer with R and RStudio installed.

✓ The R software (which is the engine that performs the calculations) and R Studio Desktop (which is integrated development environment for R and makes working with R much more manageable) can be both easily downloaded from https://www.rstudio.com/products/rstudio/download/ (Steps 1 & 2 respectively)

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Monday, 06 May 2024

09:00-09:30	Registration and introduction of participants
09:30-10:00	Opening, overall objectives of the training, economic concepts around productive capacities and articulation with official statistics. Rachid Bouhia, Economic Affairs Officer, Productive Capacities and Sustainable Development Branch, UNCTAD
10:00-11:00	<u>Session 0: Setting the stage</u> Introduction to the UNCTADStat PCI database: Access and use; Mr. Benny Salo, Statistician, UNCTAD Statistics
11:00-11:30	Tea/Coffee break
11:30-12:00	Overall presentation and visualization of the PCI package: pipelines, inputs, outputs, options and objects; Mr. Rachid Bouhia, Economic Affairs Officer, Productive Capacities and Sustainable Development Branch, UNCTAD
12:00-13:00	Introduction to R and hands-on exercises; Mr. Benny Salo, Statistician, UNCTAD
13:00-14:00	Lunch Break
14:00- 15:00	Session 1: Reading data (Step 1) Indicators for productive capacities as input for PCI: Sources and data availability; Mr. Benny Salo, Statistician, UNCTAD Statistics
15:00-15:30	Drills on input datasets and NA diagnostics; Mr. Rachid Bouhia, Economic Affairs Officer & Mr. Benny Salo, Statistician, UNCTAD
15:30-16:00	Tea/coffee break
16:00-17:00	Session 2: Interpolating, extrapolating and accounting for COVID- 19 (Steps 2 & 3)

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Overview of methods used and drills; Mr. Rachid Bouhia, Economic Affairs Officer & Mr. Benny Salo, Statistician, UNCTAD

Tuesday, 07 May 2024

09:30-11:00	Session 3: Computing the PCI (Step 6) Presentation of Principal Component Analysis, applications to the PCI and drills; Mr. Rachid Bouhia, Economic Affairs Officer, UNCTAD
11:00-11:30	Tea/Coffee break
11:30-12:00	Session 4: Transforming input indicators (Step 5) Overview of options and exercises; Mr. Benny Salo, Statistician, UNCTAD
12:00-13:00	Session 5: Imputing missing values (Step 4) Presentation of techniques used (random forests, PCA and gravity models) and drills; Mr. Benny Salo, Statistician, UNCTAD
13:00-14:00	Lunch
14:00-14:30	Why Productive Capacities Matter for Zimbabwe and what do we learn from Zimbabwe's PCI score? Mr. Andrzej Bolesta, Economic Affairs Officer, UNCTAD
14:30-15:30	Group exercises and presentations on PCI analysis; Mr. Rachid Bouhia, Economic Affairs Officer & Mr. Benny Salo, Statistician, UNCTAD
15:30-16:00	Tea/coffee break
16:00-17:00	(Continued) Group exercises and presentations on PCI analysis; Mr. Rachid Bouhia, Economic Affairs Officer & Mr. Benny Salo, Statistician, UNCTAD

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17:00-17:10

The way forward and closing; Mr. Rachid Bouhia, Economic Affairs Officer & Mr. Mussie Delelegn Arega, A/Head, Productive Capacities and Sustainable Development Branch, UNCTAD