



UIS education financing indicators: methodology and data development plan

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SDG finance indicators

1. SDG 1:

1.a.2 : *spending on essential services (education, health and social protection) as a percentage of total government spending.*

2. SDG 4/ Education 2030:

○ **4.5.4.** *'Education expenditure per student by level of education and source of funding'*

➤ Implies coverage of all sources of financing (government, households and international), disaggregation by level of education)

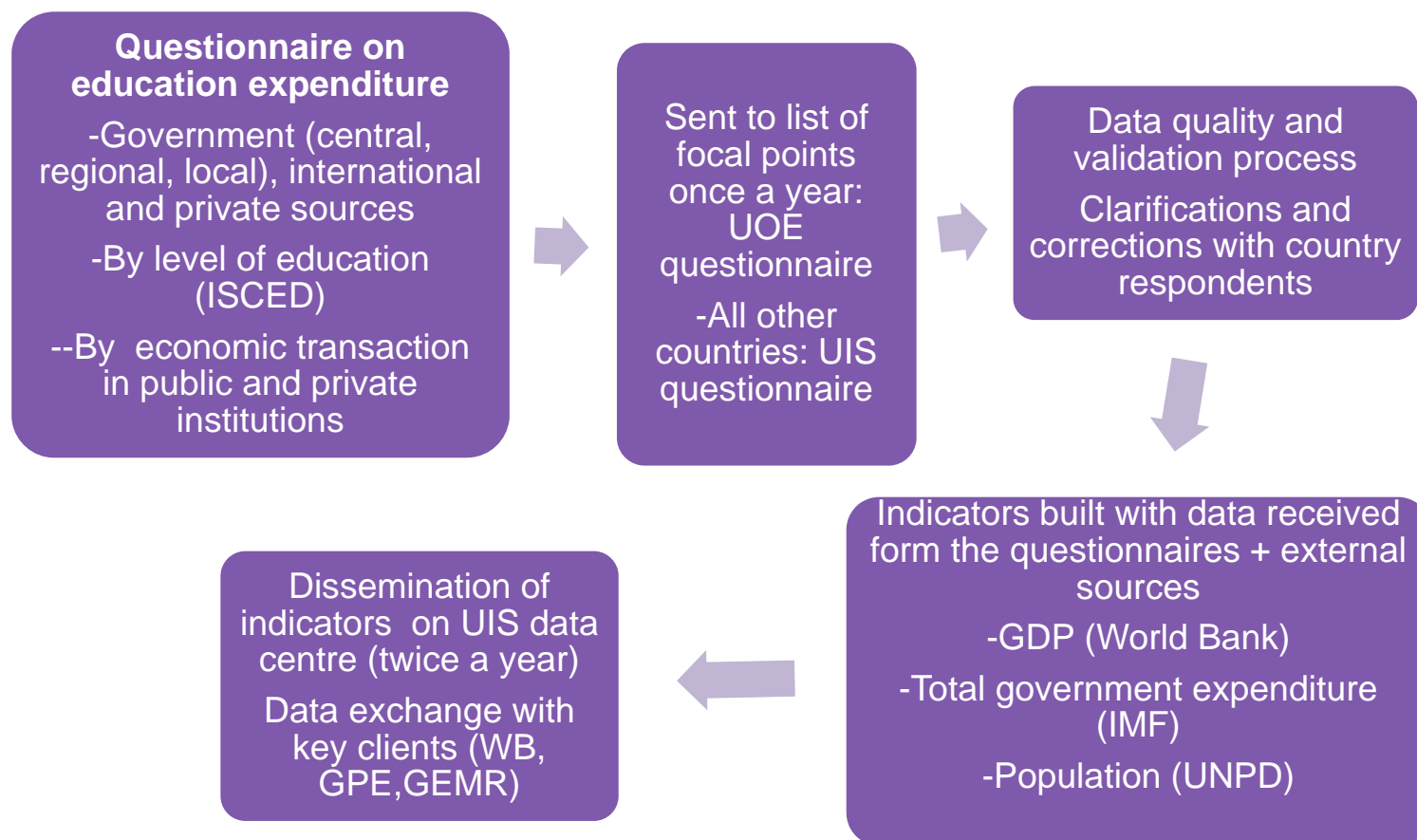
SDG finance indicators

- **4.5.3.** *Extent to which explicit formula-based policies reallocate education resources to disadvantaged populations*
- **4.c.5:** *'Average teacher salary relative to other professions requiring a comparable level of education qualification'*
- *+ indicators related to scholarships*

Other finance indicators produced by the UIS

- Indicators requested by data users (such as GEMR, World Bank, many others): % of GDP on specific levels, indicators on nature of spending (ex. % on teachers salaries, text books, etc.) and others.

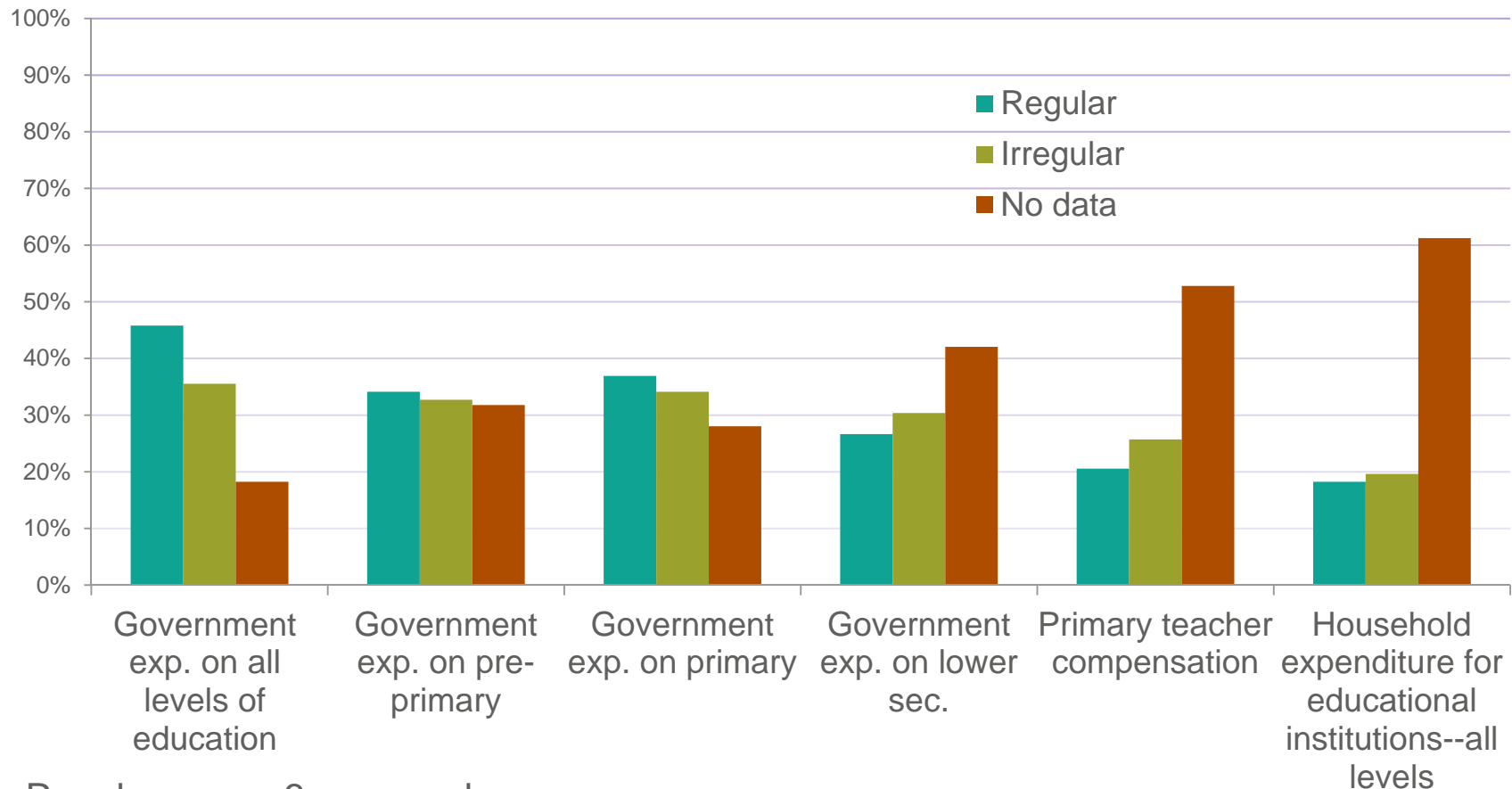
Education financing data: from countries to UIS database



How UIS works: the official submission of a questionnaire (Excel tables)

Advantages	Disadvantages
Weight and credibility of official data	Data may not exist or not be easily accessible to country respondent
Higher data quality (potentially)—national statisticians know their system	Complexity of data, estimations and disaggregation required vs respondents with weak capacity
Integration with national statistical processes, capacity building	Bureaucratic delays
Relatively 'cheap' approach in the long-run after investments are made in training respondents	Focus on actual expenditure implies 2+ years lag

Availability of education financing data in the UIS database, as % of all (211) countries



Regular=every 3 years or less
Irregular=at least one data point in
past 10 years

UIS is happy and thanks you

Country's data published in international publications

Other organisations also asking for data

Must obtain official permission before submitting data

Data not in the right format, estimations and reclassification required

No data

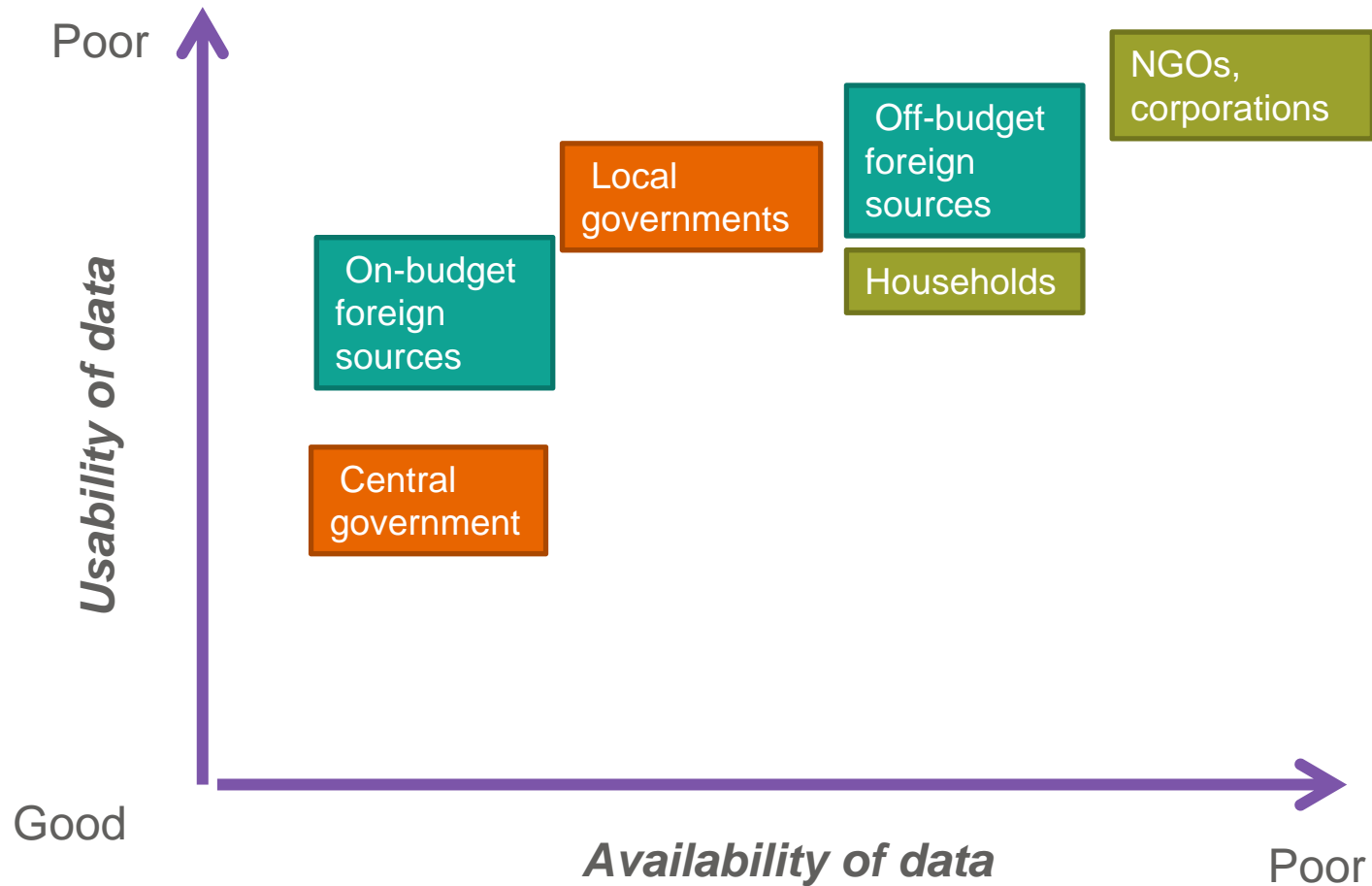
Data hard to access



United Nations
Educational, Scientific and
Cultural Organization

INSTITUTE
for
STATISTICS

Availability of finance data at country level



UIS recent projects to improve data

- Training of national statisticians
- Development of data compilation and consolidation tools (Excel templates)
- UNESCO just developed and published an international guide on National Education Accounts (NEA) methodology (jointly UIS and UNESCO/IIEP-with funding from Global Partnership for Education)

Origins of NEA

System of National Accounts (SNA)

- International (UN) standards to measure the whole economy of a country (ex. to measure GDP)
- Produced/agreed by IMF, EU, OECD, UN and World Bank



Sector/Satellite Accounts



National Health Accounts



National Education Accounts

- National initiatives: France since the 1970s, Portugal, the Philippines, Thailand
- UNESCO IIEP: Benin, Dominican Republic, Mauritania, Madagascar in the 1990s, Kenya in 2012

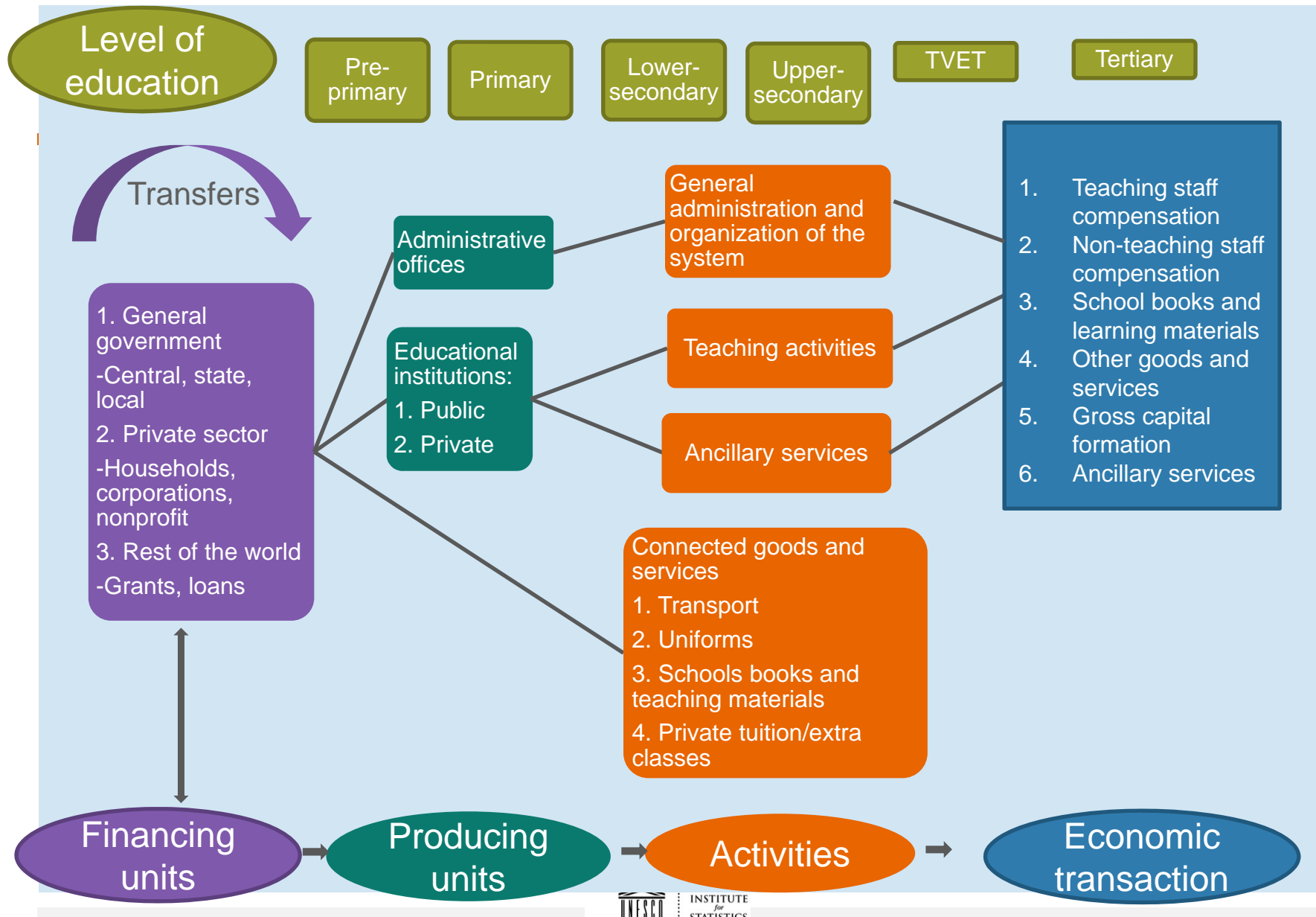


National Education Accounts

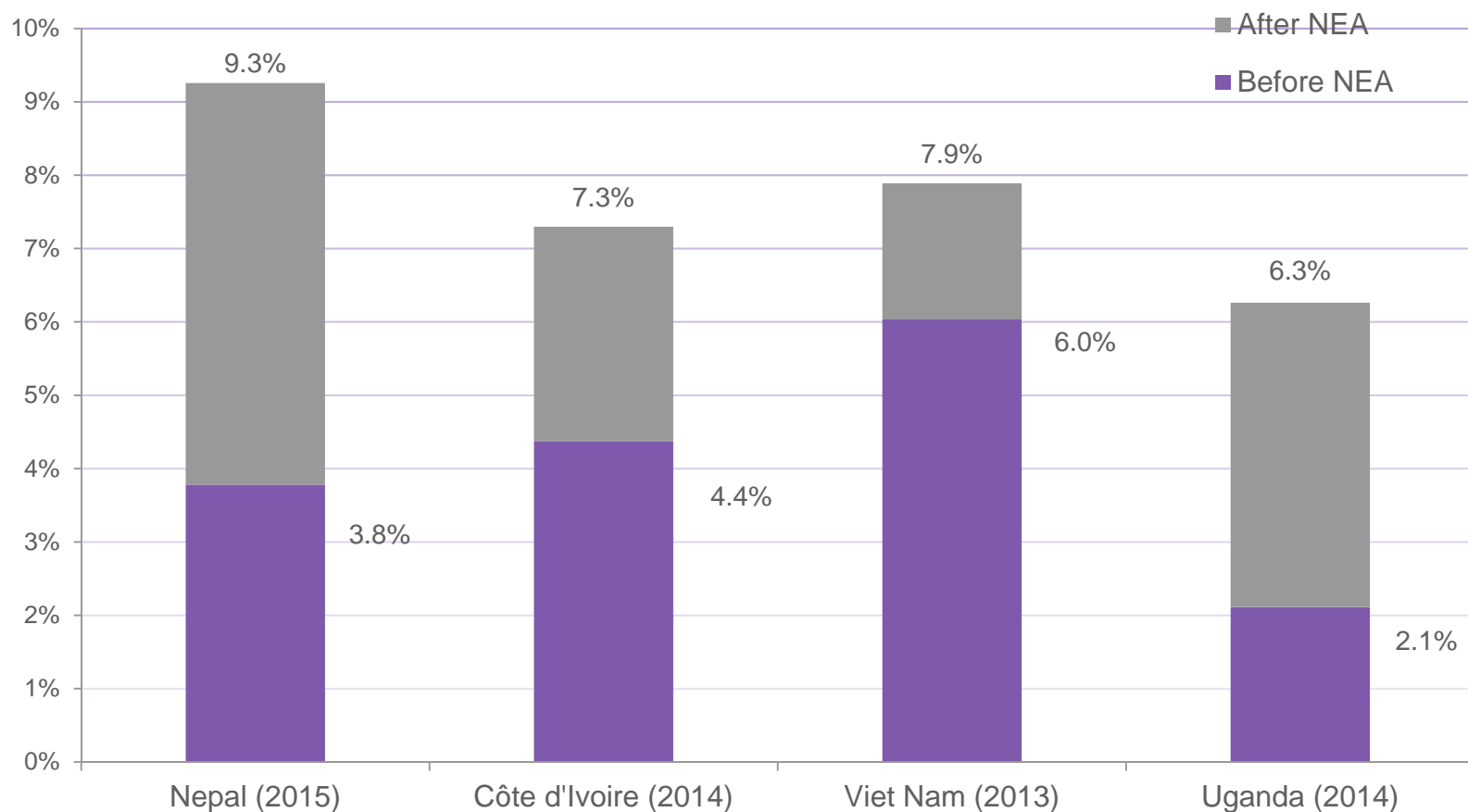
- USAID
 - Creative Associates: 4 states in Nigeria, Morocco
 - RTI International: El Salvador
- World Bank: Turkey

UNESCO-GPE-project

A coherent accounting framework around 5 dimensions



Total expenditure on education as a share of GDP, before and after a NEA



But NEA is a quite extensive and costly exercise

- Therefore could not be the only strategy to improve data coverage in the short term
- NEA methodology always the base for a comprehensive data collection and analysis and would continue using it in countries interested and where funding is available to support them

Potential solutions to improve data coverage: revision of questionnaire

- Different versions of questionnaire for country with low capacity:
 - Government expenditure only or Simplified table for key data points
- Line for *budget* (for current year) in addition to *actual* expenditure (for previous year)
- Special modules every 3 years (ex. household and international expenditure)

Potential solutions:using external data

Officially published data (Min. of Finance, NSO) and credible international sources (CSR,PER, BOOST)

- Quicker and relatively efficient
- ❖ Key data points only (ex. total exp. on all education levels)
- ❖ Bad incentive? Loss of capacity building and relationship with country
- Should still have it validated by countries
- Only as a back-up when countries have not responded

UIS strategy for improving data on household expenditure

1. Map availability and reliability of education expenditure data from surveys, working closely with the IHSN and WB
2. Develop a data processing protocol to extract data from existing household surveys in a comparable way
3. Prepare guidelines for the design of *future* surveys so that they can produce data which are more comparable

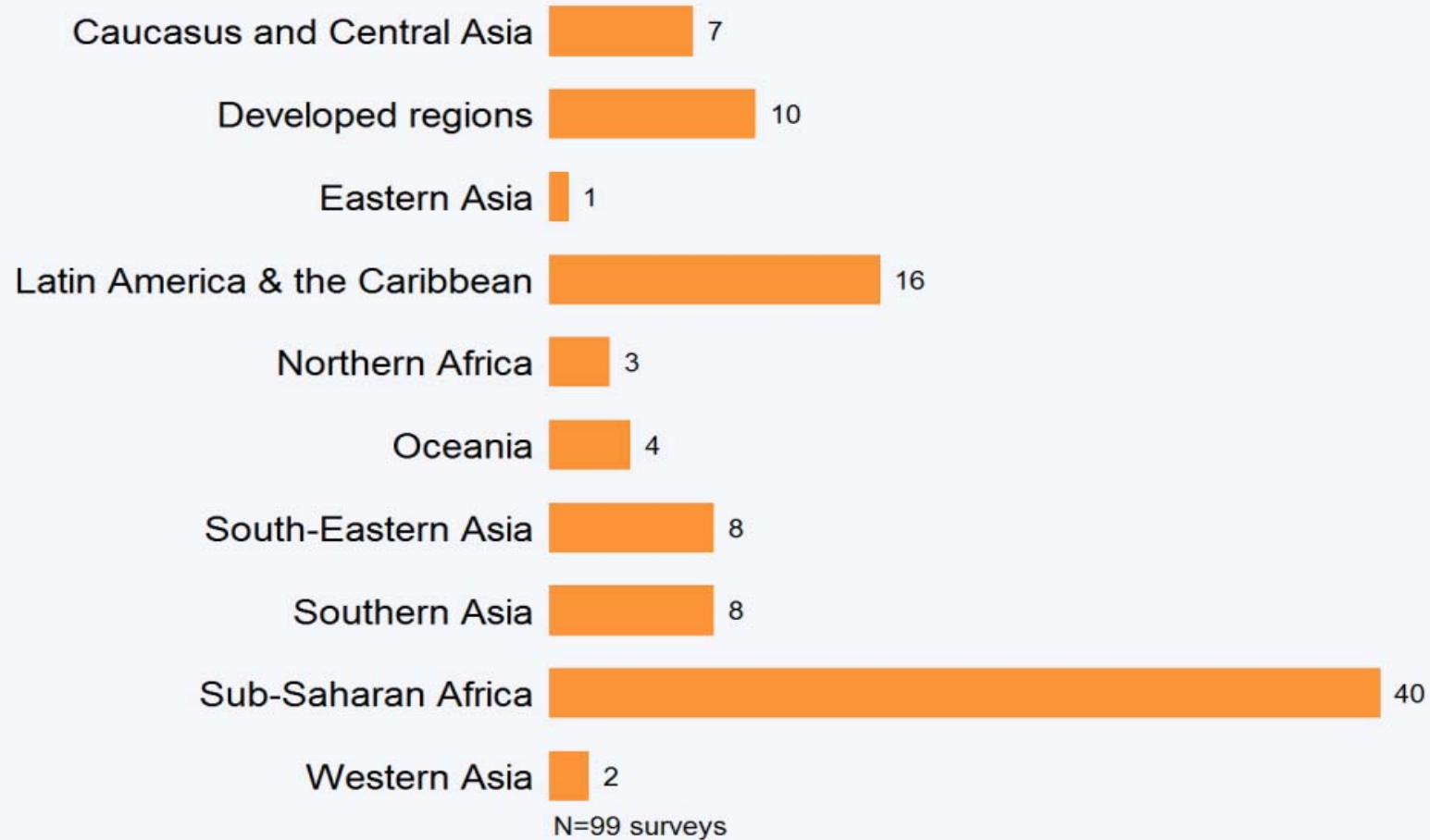
UIS strategy for improving data on household expenditure

4. Develop a household expenditure module which would be sent to selected countries every 3 years or so, based on known data availability and working through national statistical offices.

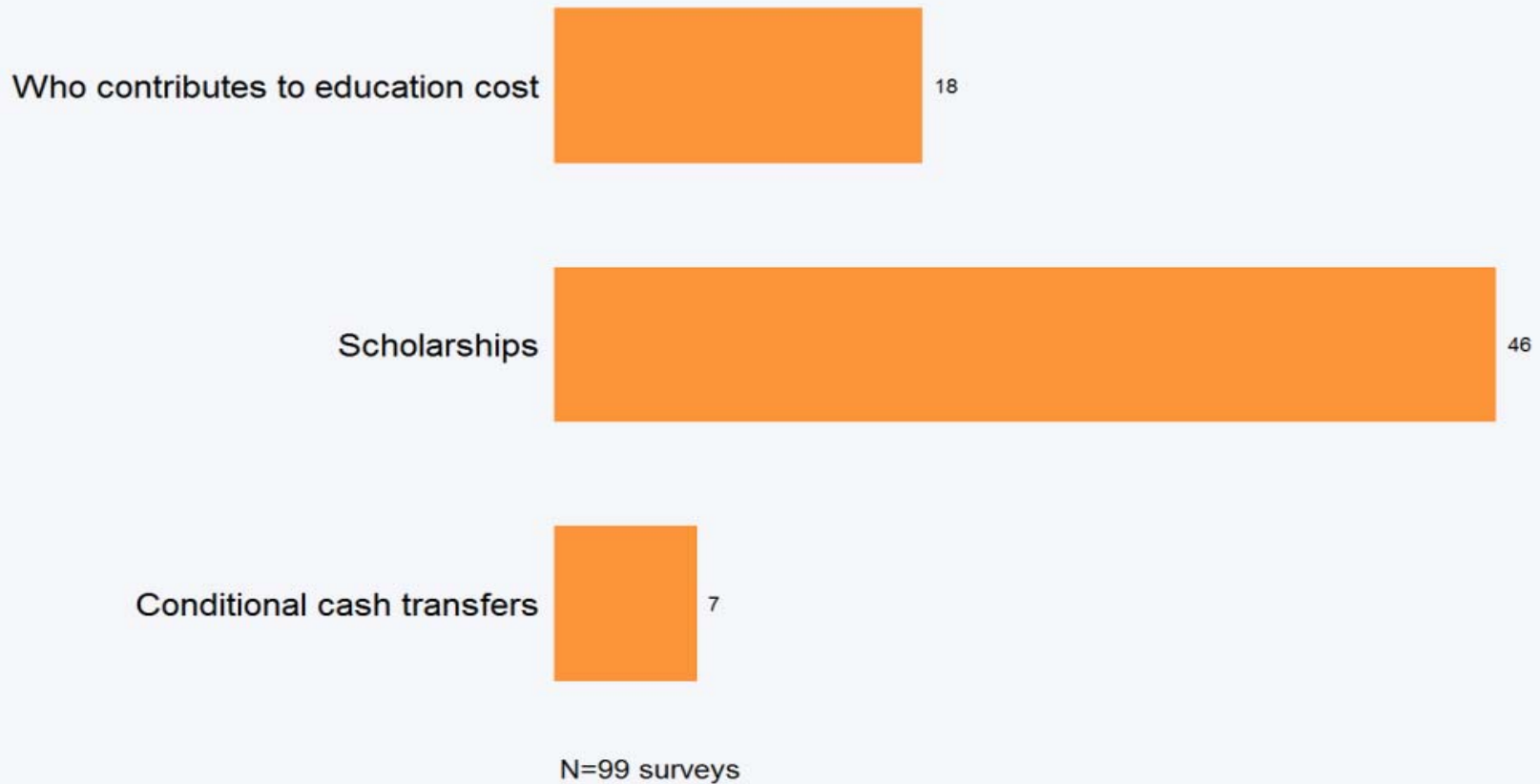
First results of a mapping of HH expenditure data availability

- We analyzed a sample of 100 HH survey provided by the World Bank and IHSN
- We are assessing data availability and quality

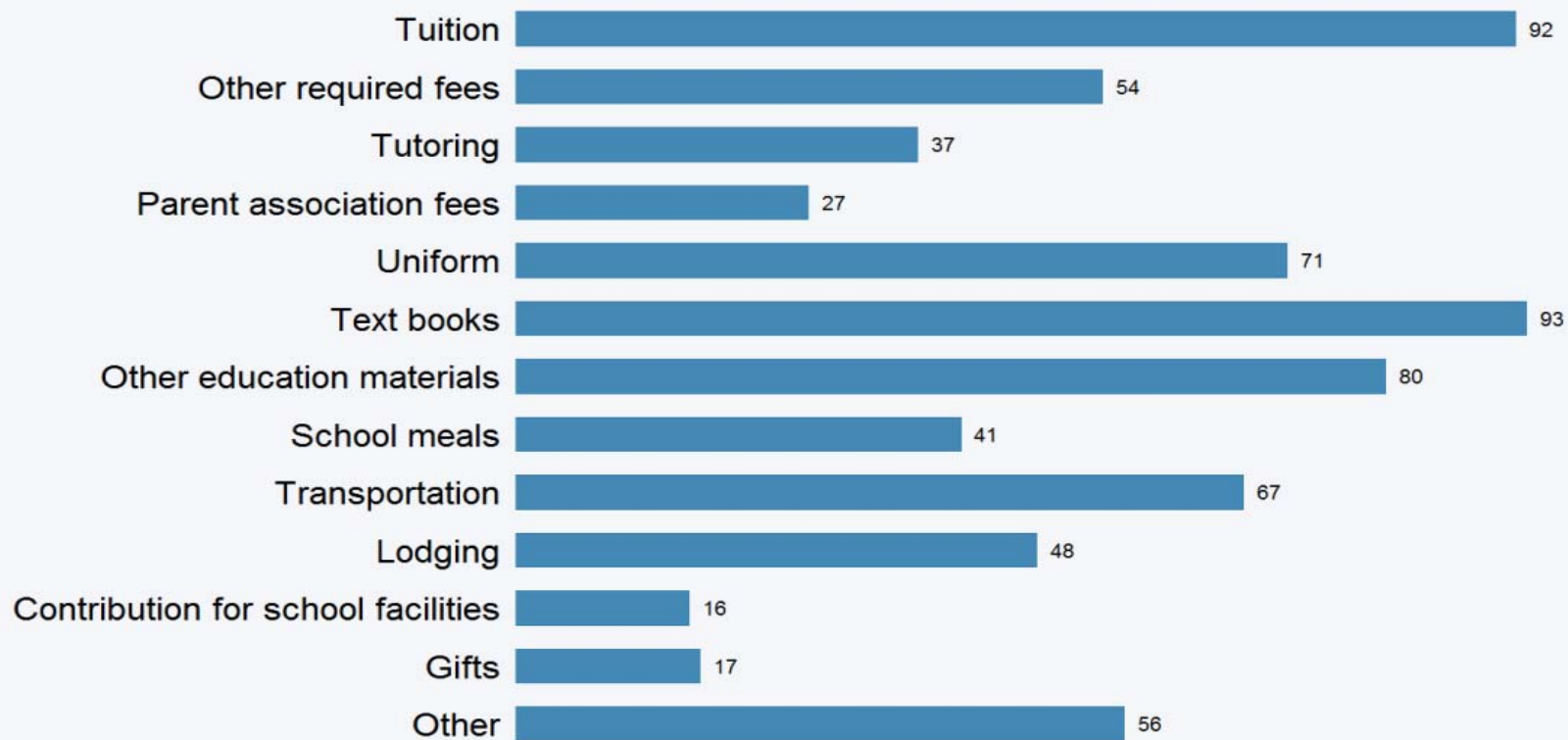
Regional distribution of countries



Availability of data on education funding sources in household surveys

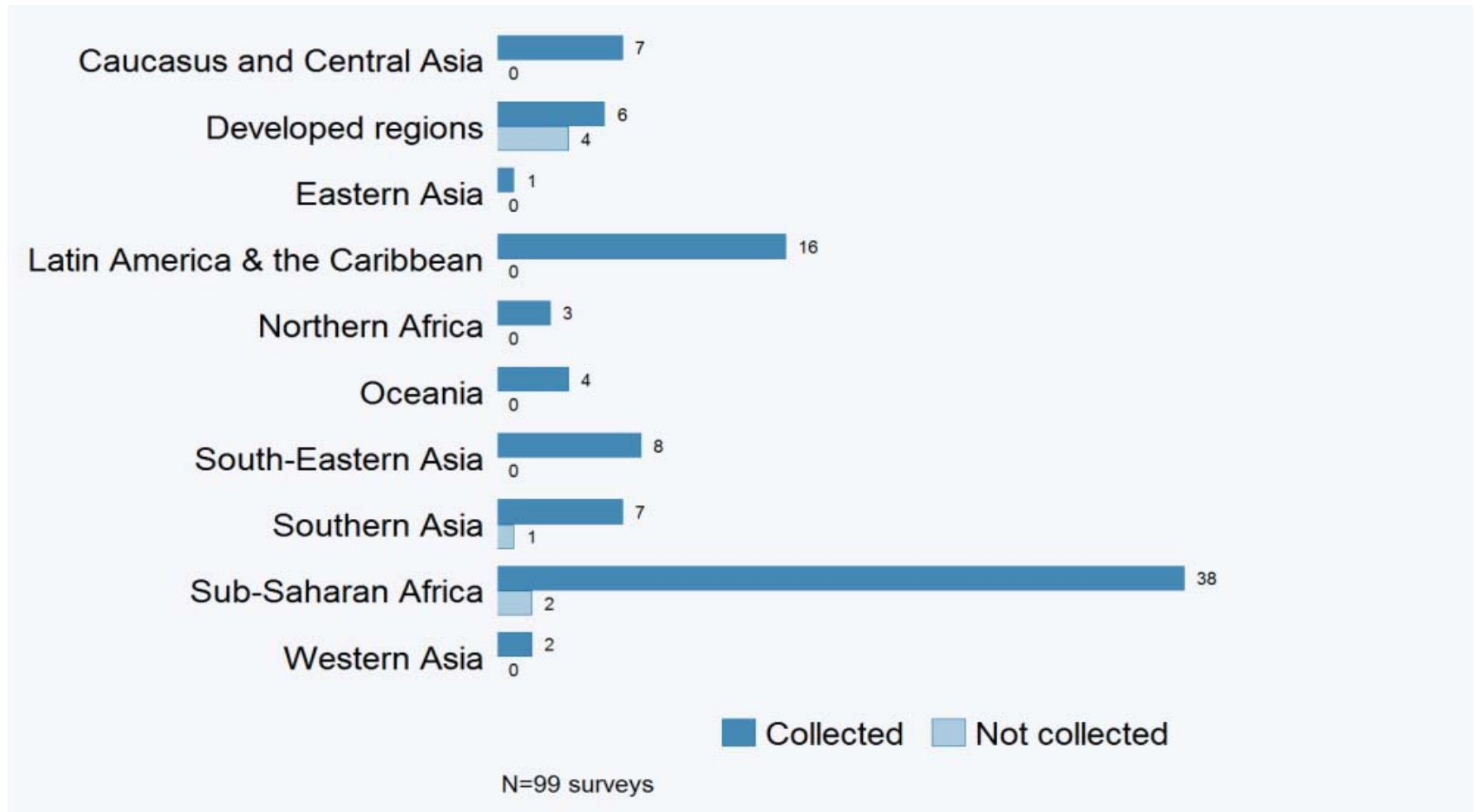


Expenditure items collected in household surveys

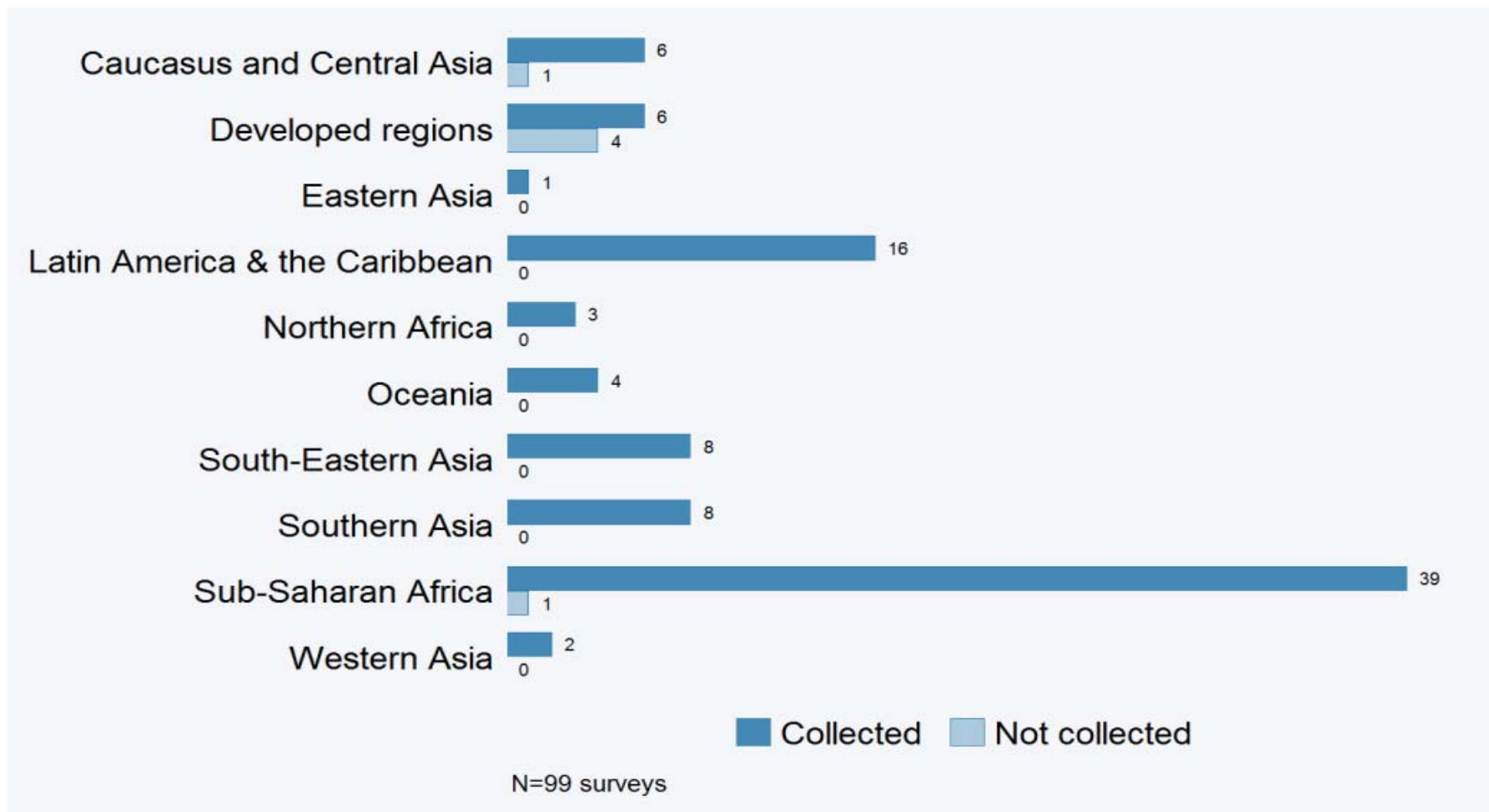


N=99 surveys

Availability of tuition data by region



Availability of text books data by region

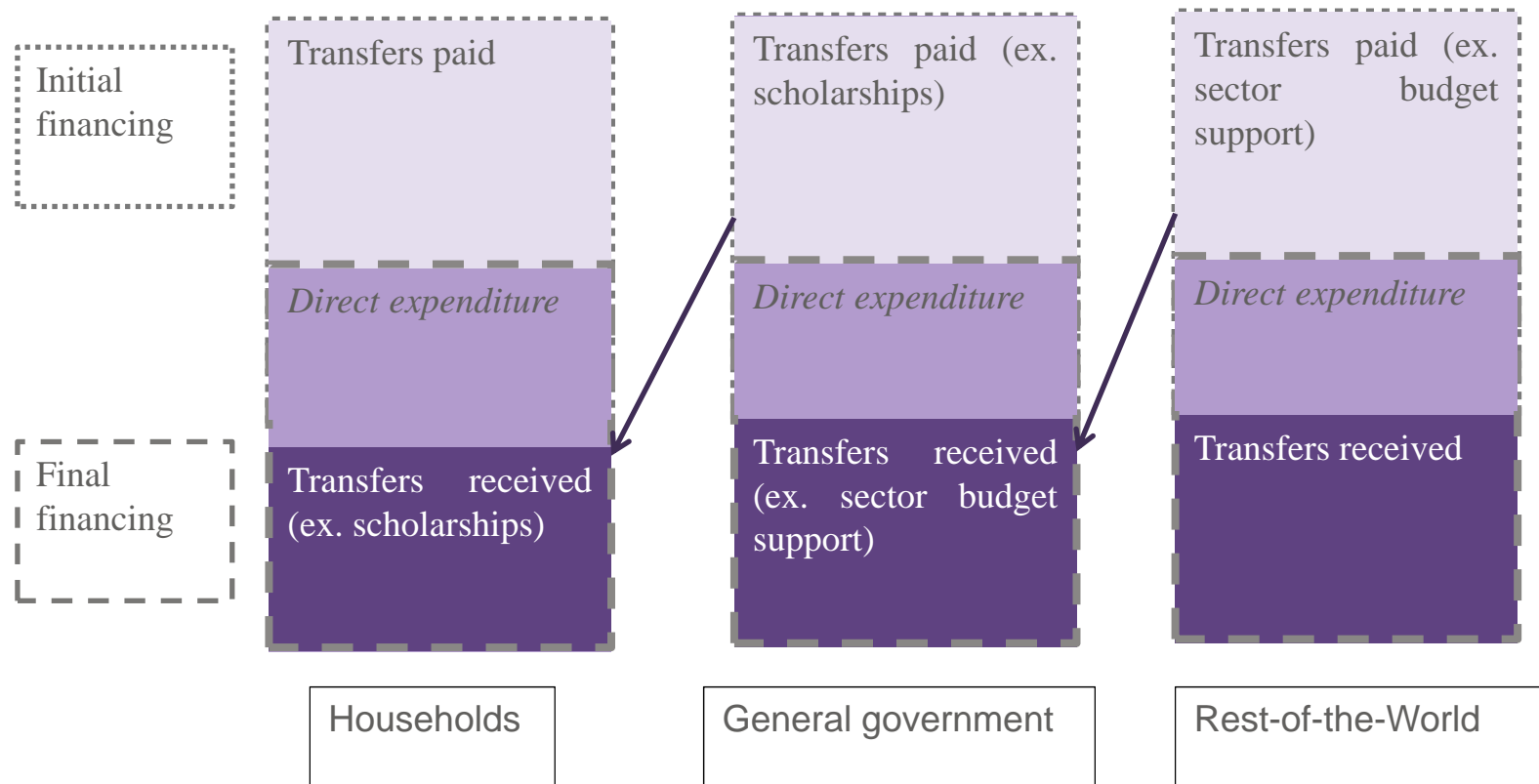


Potential solutions:

International/foreign expenditure

Will explore possibilities to use external foreign expenditure on education data sources such as the International Aid Transparency Initiative (IATI) to integrate into the UIS database

Initial vs final financing



4.5.4: *‘Education expenditure per student by level of education and source of funding’*

	Option 1	Option 2	Option 3
Numerator	<p>Currently: Total government expenditure on education, including transfers paid (ex. scholarships) AND transfers received (ex. on-budget aid) By level of education</p>	<p>Initial financing Total government expenditure on education, including transfers paid but EXCLUDING transfers <u>received</u> By level of education</p>	<p>Final financing: Total government expenditure on education, including transfers received but EXCLUDING transfers paid By level of education</p>
Denominator	Per student, as % of GDP per capita	Per student, in US\$	Per student, in PPP\$

Initial vs final financing

- Does not matter so much when you are only interested in one source of funding (ex. government)
 - If the spirit of the indicator is 'who funds education' then using initial financing is more logic. Would allow for clearer separation of governments' and donor funding. Would be in-line with NEA methodology.
 - However, requires data on transfers, not always available. Could use 'as best as possible' methodology.
- Implication for other indicators, including indicator **1.a.2** *Expenditure on education as % of total government expenditure'*

Discussions

The TCG members are INVITED to comment on:

- UIS strategy to improve data coverage and quality;
 - Use existing external data for public expenditure for non-reporting countries
 - Use HH survey data to extract data for non-reporting countries

Discussions

- Use external data sources such as International Aid Transparency Initiative (IATI) for external/foreign expenditure
- Calculate SDG indicators on initial or final ?