

The Scan-ICT-2 Methodology -The Tool Kit

The Building Blocks of the IS/ICT4D Indicators Tool Kit

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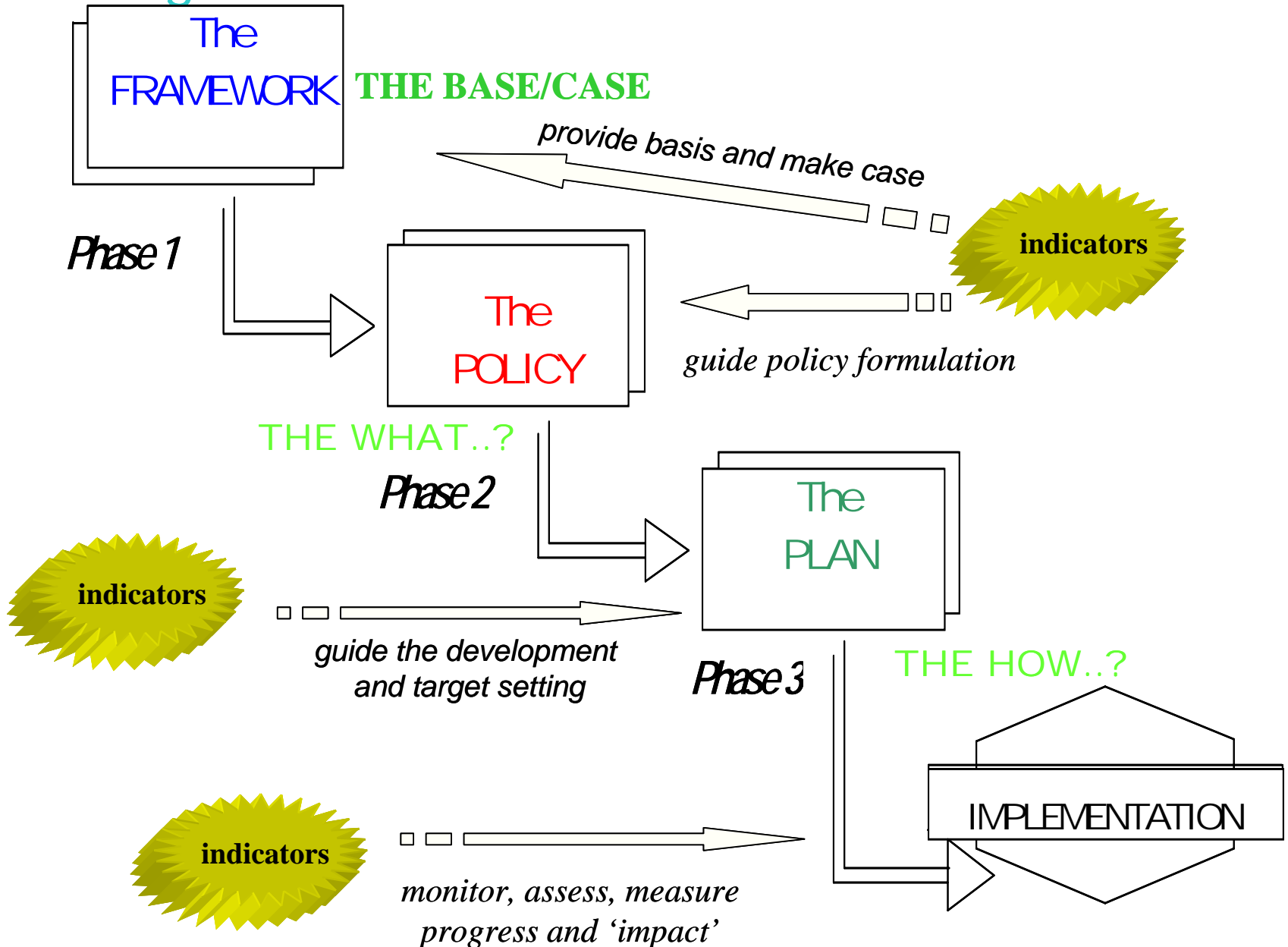
Introduction

- The *core requirements* provides an indication of the *building blocks* of the Tool Kit for guiding the identification and the development of suitable IS/ICT4D status and impact monitoring, assessment and measurement indicators.
- These building blocks are defined in terms of 3 models namely:
 - (i) a model for the integration of the IS/ICT4D indicators into the national ICT4D/NICI process;
 - (ii) a model (the *basis-means-goal model*) for identifying and classifying the broad types of indicators as they relate to each of the phases of the ICT4D process;
 - (iii) the CUT (*capacity-usage-transformation*) model for facilitating the identification of broad types of IS/ICT4D indicators to meet the stipulations of the *core requirements* of the Tool Kit

Building Block 1: A Model for the Integration of the IS/ICT4D Indicators into the National ICT4D/NICI Process

- A key core requirement (ref *CoreReq 1*) refers to the need to develop a framework that integrates the IS/ICT4D indicators into the ICT4D/NICI process in African countries.
- Basically the ICT4D process in a number of the African countries follows a phase-wise methodology developed by UNECA involving:
 - the development of a *framework* document to guide the ICT4D (or NICI) policy and plan development process;
 - the development of the *ICT4D policy* and
 - development and the implementation of the corresponding *ICT4D plan*
- The development of the deliverables at each of these phases can be supported by the identification and the collection of suitable ICT4D indicators

Linkages Between Indicators and the ICT4D Process



Comments

The Framework Development Phase

- The development of the *framework* document to guide the policy and plan development process required the need to:
 - identify, and compile data on suitable socio-economic and other ICT4D indicators to establish and make the case for
 - the need to develop the policy and the plan to facilitate the development of the information society and economy of a given country.
- Also data on specific indicators will be required to guide and crystallize policy objectives and orientations as well as those for the plan. [This corresponds to addressing *CoreReq 1*]

The Policy and Plan Development Phases

- The development of the policy needs to be guided by data on specific policy-related ICT4D indicators.
- The basis for specific policy commitments need to be established and justified by way of data of relevant indicators of interest.
- The ICT4D plan development also need to be based on data on specific ICT4D indicators that could form the basis for setting targets for specific programmes and initiatives detailed in the plan of action.

[This corresponds to meeting the stipulation of *CoreReq 1*]

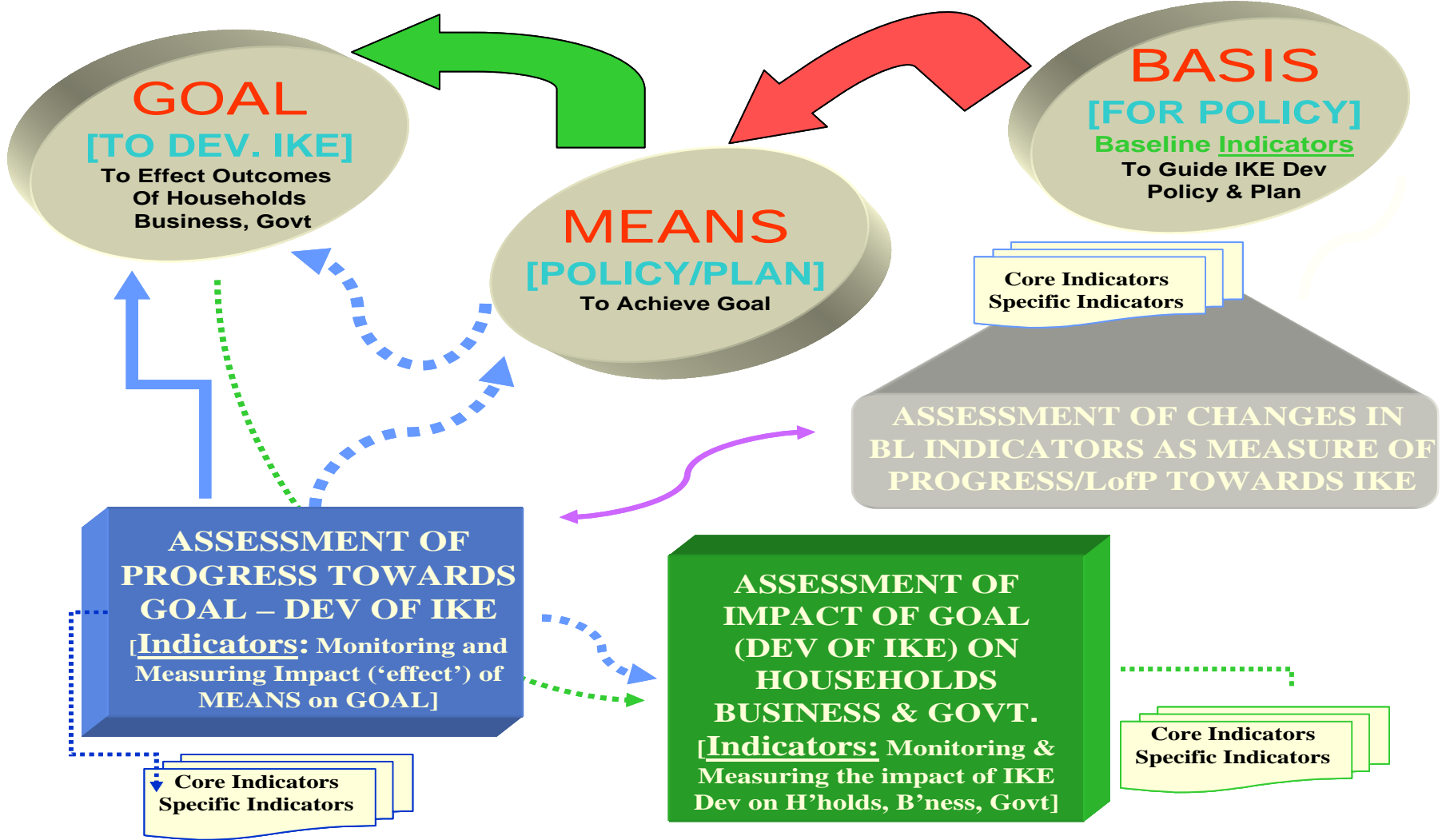
The Implementation and Impact Monitoring Phase

- The plan implementation monitoring and evaluation exercise need to be based on the identification, development, compilation and the analysis of suitable IS/ICT4D indicators to:
 - assess progress toward the development of the information society and
 - the measurement of the social, economic and institutional impact of the implementation of households, businesses and on government systems and operations.
- [This corresponds to meeting the stipulations of *CoreReq 2 and 3*]

Concluding: The deliverables of each of the phases of the ICT4D process provides us with an indication of the broad types of indicators required to support the process in each of the African countries.

Building Block 2: The 'Basis-Means-Goal' Model

- The '*basis-means-goal*' model also provides a suitable classification system for identifying the broad types of IS/ICT4D indicators as they relate to the deliverables of each of the phases of the ICT4D process.
- The basic assumption is that the IS/ICT4D indicators are to be developed to support the key aspects of the ICT4D process (ref. the premise of the methodology)



The ICT4D policies and the plans serves as '*means*' for achieving a specific policy '*goal*', ---to develop the IKE to bring about a transformation (**impact**) on the outcomes of households, businesses and government.

The '*basis*' for the development of the policy and the plan need to be established by way of a baseline study on the *status* of key ICT4D indicators

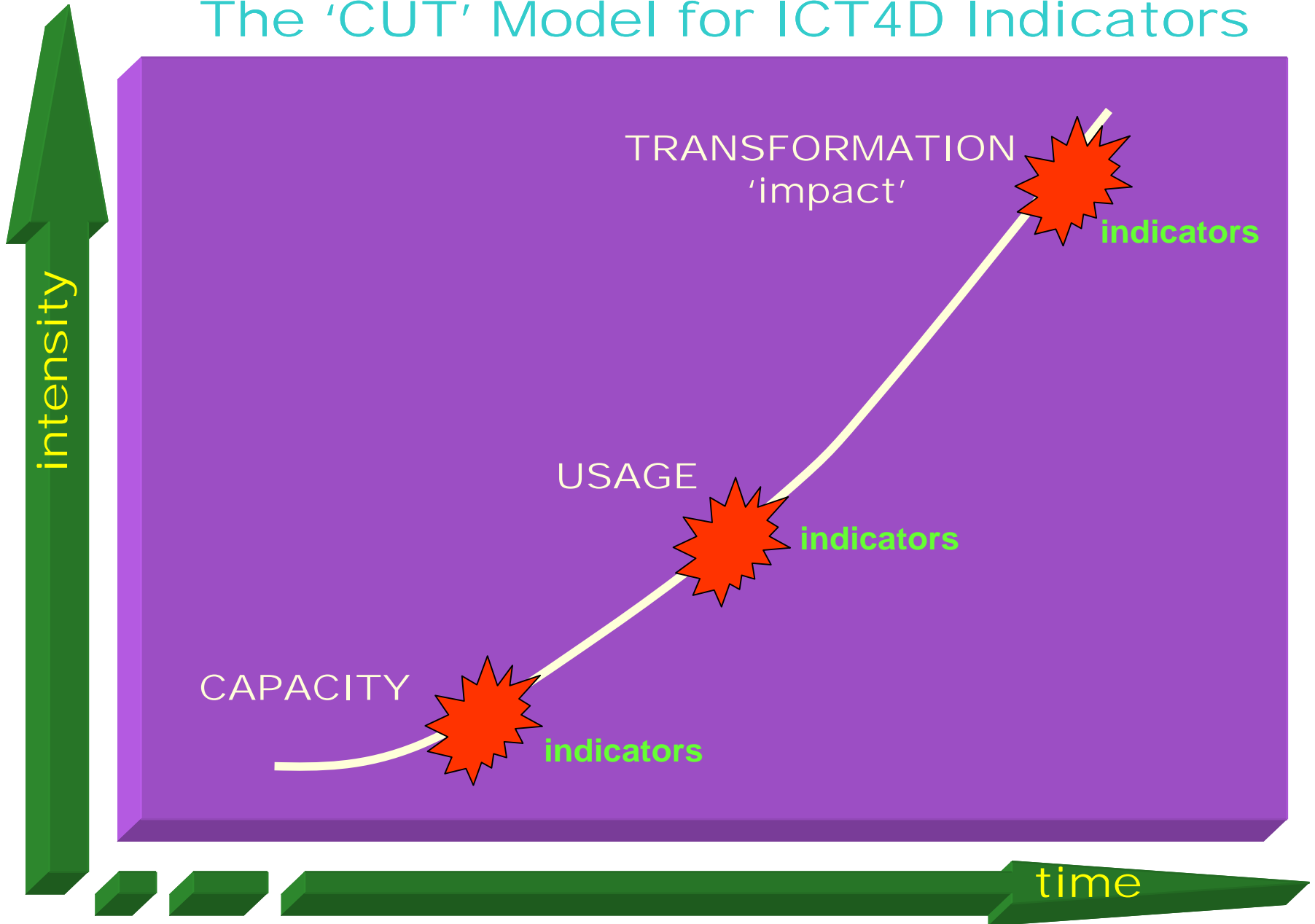
The Model suggest the need for IS/ICT4D Indicators to support:

- the policy and plan development process (with the ICT4D policy and the plan serving as the *means* to achieve a policy **goal**
 - This involves the development and the use of baseline (*status*) indicators to establish the *basis* for the policy and set targets for the plan) [ref *CoreReq 1*]
- the monitoring, assessment and the evaluation of the policy and plan implementation process to established the extent to which the policy *goal* is being achieved
 - The extent to which the *goal* to develop the information and knowledge society and economy (IKE) is being achieved) [ref *CoreReq 1*] and
- the monitoring, evaluation, assessment and the measurement of the impact of the implementation of households, businesses and government. [ref. *CoreReq 3*]

Building Block 3: The CUT [*capacity-usage-transformation*) Model

- The CUT model also provides another perspective (a building block) for:
 - classifying and identifying the broad types IS/ICT4D indicators to meet the stipulations of the core requirements of the methodology – the Tool Kit.

The 'CUT' Model for ICT4D Indicators



capacity indicators

- These include indicators targeted at measuring the level and the extent of the development and the deployment of the ICT capacity (infrastructure) and other related resources (e.g. human resources) targeted at the development of the information society and economy

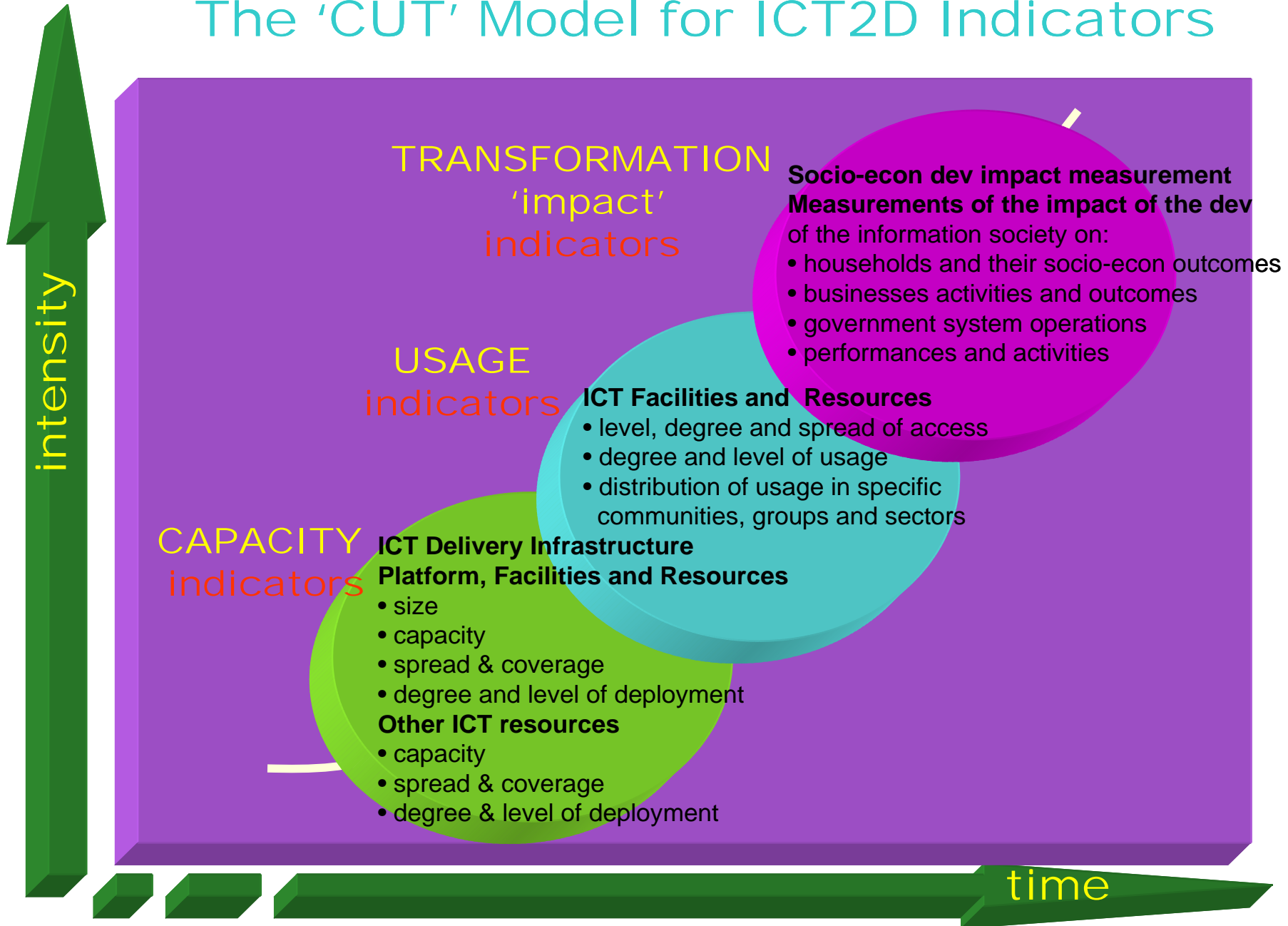
usage indicators:

- These include indicators aimed at assessing and measuring the extent of the usage (utilization or the exploitation) of the ICT capacity and related resources by households, businesses and government entities

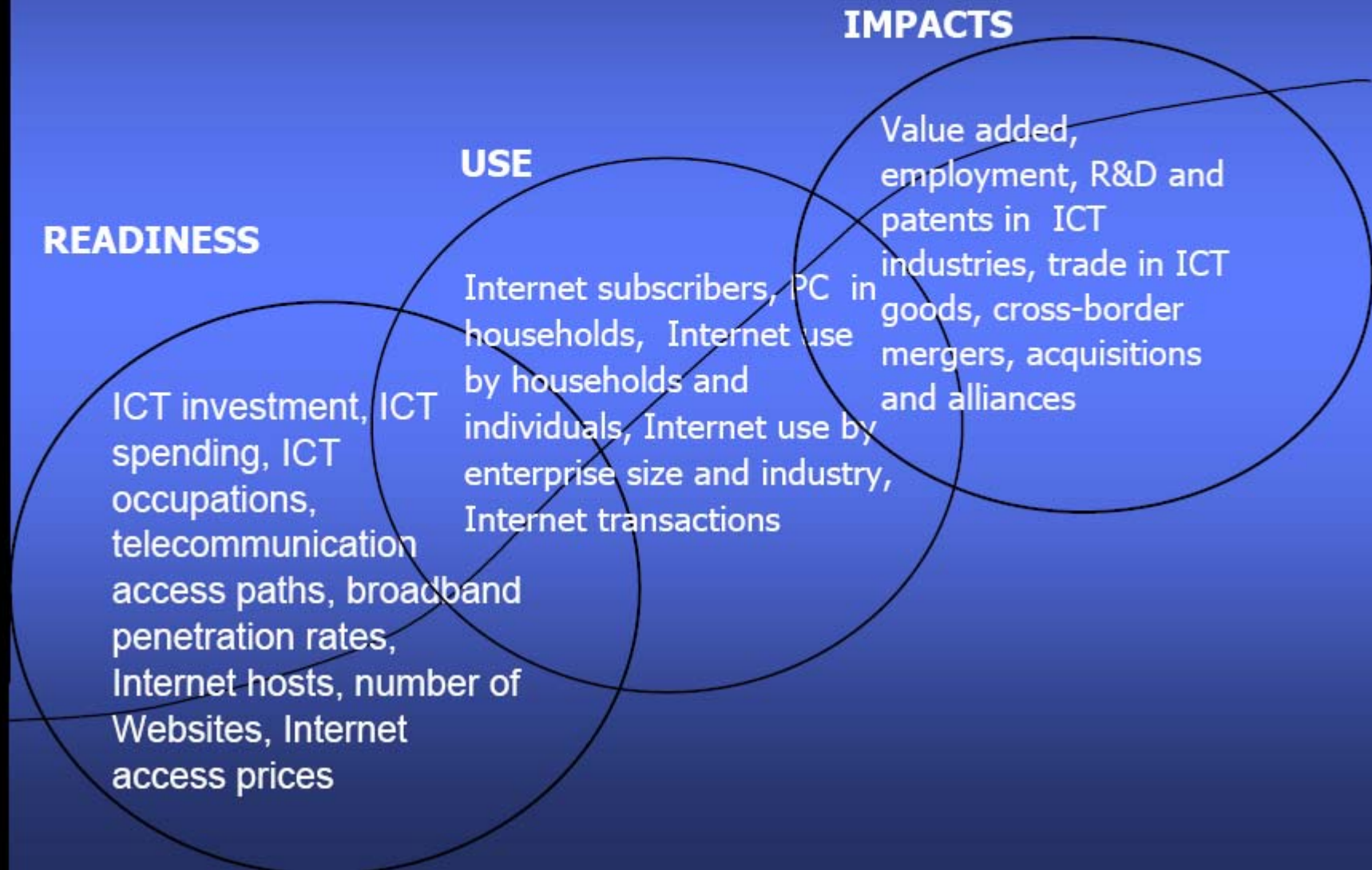
transformation or impact indicators:

- These include indicators targeted at measuring the extent of the impact of the usage (utilization or the exploitation) of the ICT capacity on households, business and government entities
- Broadly speaking, indicators targeted at measuring the social and economic impact of the deployment (capacity deployment) and the exploitation (usage) of ICTs within the economy and society.

The 'CUT' Model for ICT2D Indicators



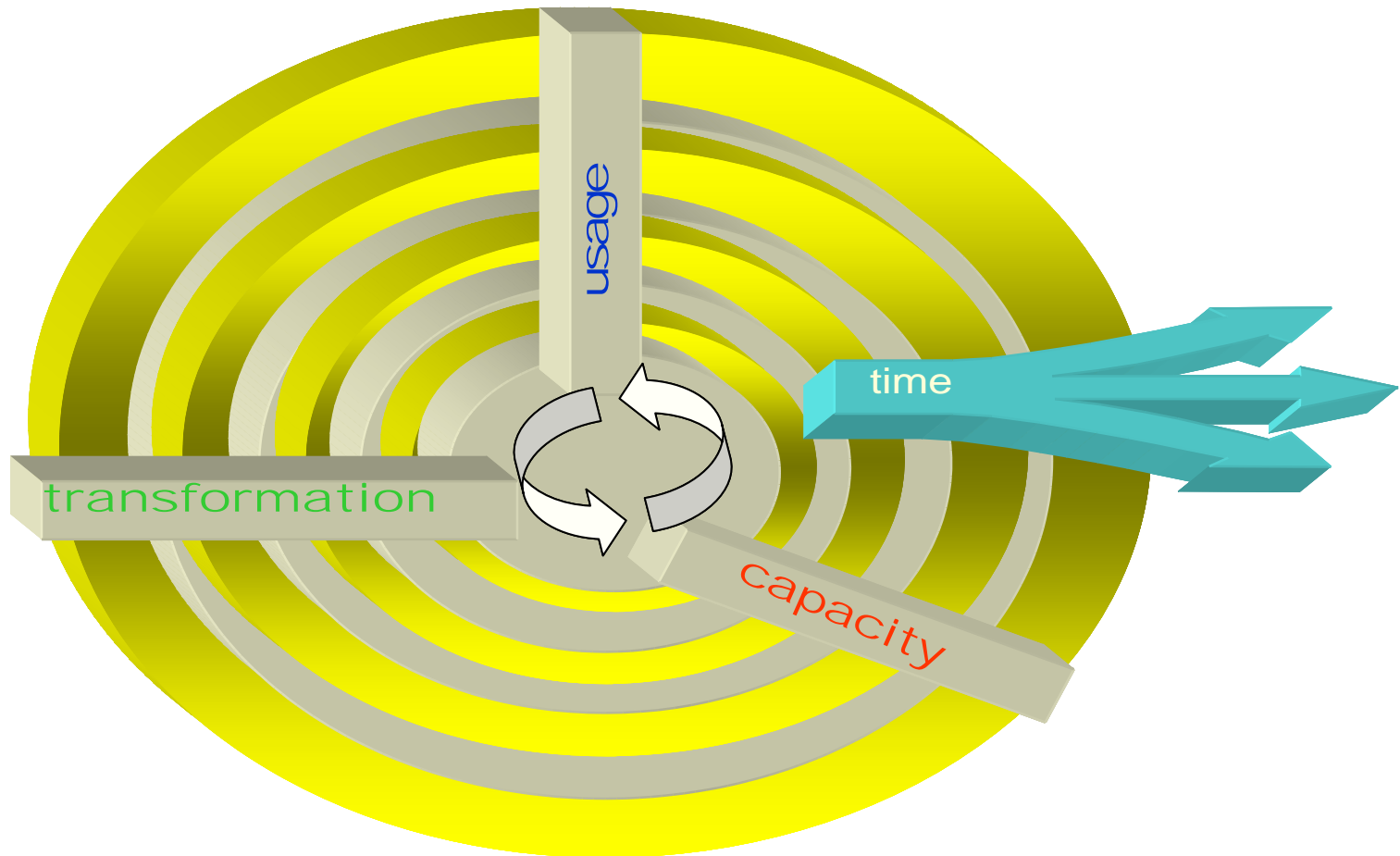
Measuring ICT



The Time-Dimension of the CUT Model

- Countries at the ICT4D policy and plan development phase are more likely to be involved in Baseline studies targeted at the ‘capacity’ and ‘usage’ types of indicators
- Countries who have actually implemented their plans over a number of years and are interested in analyzing its impact will devote their attention to compiling data on the ‘transformation’ (impact) indicators.
- For a given country, the IS/ICT4D indicators (capacity, usage, transformation) of interest will be determined by which phase of the ICT4D process it is at.

The 'CUT' Ripples Loop



Note: Within a given loop, the extent and the spread of 'usage' depends on the size, spread as well as on the level of development of the 'capacity'.

The extent, degree and the level and scale of the 'transformation' (impact) depends on the degree and the spread of 'usage'.

- A given country, will over time move from an inner loop to an outer loop as it progresses towards the development of its IS/IKE (i.e. making progress towards achieving the **goal**).
- As a country moves outwards from one loop to another, as it develops its IS/IKE, the status of its *capacity*, *usage* and *transformation* indicators changes to reflect its development.
- The status of these indicators for two countries on different loops will differ to reflect the different stages of the development of their respective IS/IKE.
 - For example, an under-developed African country at an early stage of the development of its IS/IKE (hence on a inner loop) will have an under-developed infrastructure which will be reflected in the status of its *capacity*, *usage* and *transformation* indicators
 - compared to those of a much developed country on an outer loop of the CUT model.

The ICT4D Indicators Topology – Integrating the Building Blocks of the Tool Kit

	The Core Requirements		
	<i>CoreReq 1</i>	<i>CoreReq 2</i>	<i>CoreReq 3</i>
The CUT Model	ICT4D Status Indicators	IS/IKE Development Monitoring Indicators	Impact Monitoring and Assessment Indicators
Capacity	Indicators on the status of ‘capacity’ (capacity status indicators)	Indicators on ‘capacity’ development (capacity development indicators)	N/A
Usage	Indicators on the status of ‘usage’ (usage status indicators)	Indicators on ‘usage’	N/A
Transformation (Impact)	N/A	N/A	Indicators on the ‘impact’ of the development of the IS/IKE on households businesses and on government systems

**THANKS FOR YOUR
ATTENTION**

.... AND PATIENCE