

The ICT Development Index (IDI)

1. The IDI has been produced by the International Telecommunication Union (ITU) to merge previous ITU indices such as the Digital Access index (DAI), the Digital Opportunity Index (DOI) and the ICT opportunity Index (ICT-OI). The IDI has been produced as a response to calls by ITU member states to merge ITU indices into a single index in order to track the digital divide and benchmark information society developments.
2. The IDI is a composite index based on a set of eleven variables in three categories as follows:

Category	Variables
A. ICT Access	Fixed telephone lines per 100 inhabitants Mobile cellular telephone subscriptions per 100 inhabitants International Internet bandwidth (bits/s) per Internet user Proportion of households with a computer Proportion of households with Internet access at home
B. ICT Use	Internet users per 100 inhabitants Fixed broadband internet Mobile broadband subscribers per 100 inhabitants
C. ICT Skills	Adult literacy rate Secondary gross enrolment ratio Tertiary gross enrolment ratio

3. Each variable is converted to a variable index with a value between zero and one by dividing it by the reference value or “goal post”. The category index is an average of the weighted variable indices multiplied by 10. The IDI is a weighted average of the category indices.
4. The IDI is based on eleven indicators grouped into three sub-indices; it is measured on a scale of 0 to 10, where a value of 10 indicates high ICT development and a value of zero indicates least ICT development. The computation of the index for year 2016 is shown below:

Computation of ICT Development Index for Mauritius, 2016 ¹

Category	Variable	Value for Mauritius	Reference Value	Variable index	Variable Weight (%)	Variable index weighted	Category Index	Category Weight (%)
		a	b	$c = a/b^2$	d	$e = c * d$	$f = (\sum e) * 10$	g
1. ICT Access	1. Fixed telephone lines per 100 inhabitants.	30.8	60	0.51	0.20	0.10	7.32	0.40
	2. Mobile cellular telephone subscriptions per 100 inhabitants.	143.6	120	1.20	0.20	0.24		
	3. International Internet bandwidth (bit/s) per Internet user.	75,221	2,158,212	0.77	0.20	0.15		
	4. Proportion of households with a computer.	54.7	100	0.55	0.20	0.11		
	5. Proportion of households with Internet access at home.	63.3	100	0.63	0.20	0.13		
2. ICT Use	6. Internet users per 100 inhabitants.	53.7	100	0.54	0.33	0.18	4.47	0.40
	7. Fixed broadband internet subscribers per 100 inhabitant.	16.8	60	0.28	0.33	0.09		
	8. Mobile broadband subscribers per 100 inhabitants.	51.5	100	0.52	0.33	0.17		
3. ICT Skills	9. Mean year of schooling	10.2	15	0.68	0.33	0.30	6.53	0.20
	10. Secondary gross enrolment ratio	81.0	100	0.81	0.33	0.27		
	11. Tertiary gross enrolment ratio.	46.6	100	0.47	0.33	0.16		
ICT Development Index - Weighting of indicators (Sum of 3 weighted category indices) = $\sum f * g$							6.02	

¹ Revised

² Except $c_3 = (\log a_3)/5$

ICT Development Index (IDI) for selected countries, 2016 ¹

Category	IDI	Rank
Iceland	8.98	1
Korea Republic of	8.85	2
Denmark	8.71	4
United Kingdom	8.65	5
Australia	8.24	14
Singapore	8.05	18
Mauritius *	5.88	72
Seychelles	5.03	90
South Africa	4.96	92
India	3.03	134

¹ Revised

Source: International Telecommunication Union (ITU)

* Provisional figure compiled by ITU