





















characterised by :					
a high		ge of prepaid su	bscriber		
Pays	Part abonnés prépayés	5 1 1			
Afrique du Sud (MTN, 31/03/03)	79,40%				
Algérie (Djezzy, 31/12/02)	48,50%				
Botswana (est. fin 02)	93,53%				
Cameroun (MTN, 31/03/03)	97,60%		Part abonnés		
Côte d'Ivoire (est. fin 02)	89,36%	Région	prépayés		
Egypte (MobiNil, 31/12/02)	80,00%	Amérique du Nord	10.309		
Ghana (est. end 02)	88,17%	Amérique du Nord	62,50%		
Kenya (est. end 02)	90,51%	Asie-Pacifique	49,00%		
Maroc (31/03/03)	95,27%	Europe de l'Est	66,60%		
Maurice (est. end 02)	70,95%	Europe de l'Ouest	61,109		
Mozambique (est. fin 02)	85,88%	Moyenne mondiale	50,10		
Namibie (est. end 02)	87,66%	Moyenne mondiale	50,10		
Nigeria (MTN, 31/03/03)	97,90%				
Ouganda (MTN, 31/03/03)	97,90%				
Rwanda (MTN, 31/03/03)	96,40%				
Sénégal (est. end 02)	86,07%				
Swaziland (MTN, 31/03/03)	94,90%				
Tanzanie (est. fin 02)	93,74%				
Zimbabwe (est. fin 02)	74,93%				

10 - And an ARPU which varies from country to country, mainly according to the maturity of networks, and decreases quickly

Pays	ARPU (US\$)	Variation/à l'année précédente
Afrique du Sud (MTN,31/03/03)	21,00	-4,55%
Afrique du Sud (Vodacom, 31/03/03)	23,00	-0,55%
Algérie (Djezzy, 2002)	44,00	na
Botswana (est. 2002)	15,00	-25,00%
Cameroun (MTN, 31/03/03)	21,00	-12,50%
Congo (Libertis, 2002)	28,80	-11,11%
Côte d'Ivoire (est. 2002)	19,00	-17,39%
Egypte (MobiNil, 2002)	19,00	-8,65%
Ghana (est. 2002)	19,00	-9,52%
Kenya (est. 2002)	18,00	-30,77%
Maroc (est. 2002)	11,00	-15,38%
Maurice (est. 2002)	17,00	-15,00%
Aozambique (est. 2002)	30,00	-25,00%
Namibie (est. 2002)	12,00	0,00%
Nigeria (MTN, 31/03/03)	57,00	-5,00%
Duganda (MTN, 31/03/03)	28,00	-24,32%
Rwanda (MTN, 31/03/03)	27,00	-28,95%
Sénégal (est. 2002)	14,00	-17,65%
Swaziland (MTN, 31/03/03)	21,00	-25,00%
Fanzanie (est. 2002)	24,00	-11,11%
Chad (Chad Mobile, 2002)	35,40	-4,44%
imbabwe (est. 2002)	19.00	-17,39%

Région	ARPU (US\$)	Variation/à l'année précédente
Amérique du Nord	51,00	0,59%
Amérique du Sud	13,40	-11,26%
Asie-Pacifique	28,10	-12,73%
Europe de l'Est	22,80	-9,16%
Europe de l'Ouest	34,20	0,29%
Movenne mondiale	31.00	-6.31%

11 - The high percentage of mobile users in the total of telephony users in most of the countries translates fixed by mobile substitution					
Afrique du Sud	(fixe+mobile)	Allemagne	52%		
Angola	63%	Argentine	45%		
Botswana	74%	Australie	55%		
Cameroun	88%	Brésil	48%		
Côte d'Ivoire	72%	Bulgarie	48%		
Egypte	37%	Chine	48%		
Ghana	56%				
Kenya	75%	Corée du Sud	58%		
Maroc	84%	Espagne	64%		
Maurice	54%	Etats-Unis	42%		
Mauritanie	87%	France	52%		
Mozambique	66%	Grèce	63%		
Namibie	58%	Hongrie	64%		
Nigeria	70%	Inde	20%		
Ouganda	90%	Indonésie	59%		
Sénégal	66%	Mexique	63%		
Tanzanie	77%	Pays Bas	60%		
Tunisie	29%				
Zimbabwe	53%	Pérou	57%		
		Turquie	51%		

IMT-2000 IN AFRICA









Requirements of developing countries

- Flexibility in the use of the identified spectrum
- Sufficient amount of spectrum to guarantee competition in suitable frequency bands in different types of environments : mountains, forests, deserts, costs ...
- Globally harmonised use of the spectrum to allow roaming and economies of scale
- Good quality of service at affordable prices
- Solutions allowing access to basic telecommunications services to the majority of users on most of the national territory, including sparsely p opulated and low traffic density areas, in a reasonable timeframe and in affordable economic conditions
- Large cells sizes
- Network and terminal equipment at affordable prices
- Smooth transition from first and second generation systems to third generation systems























