

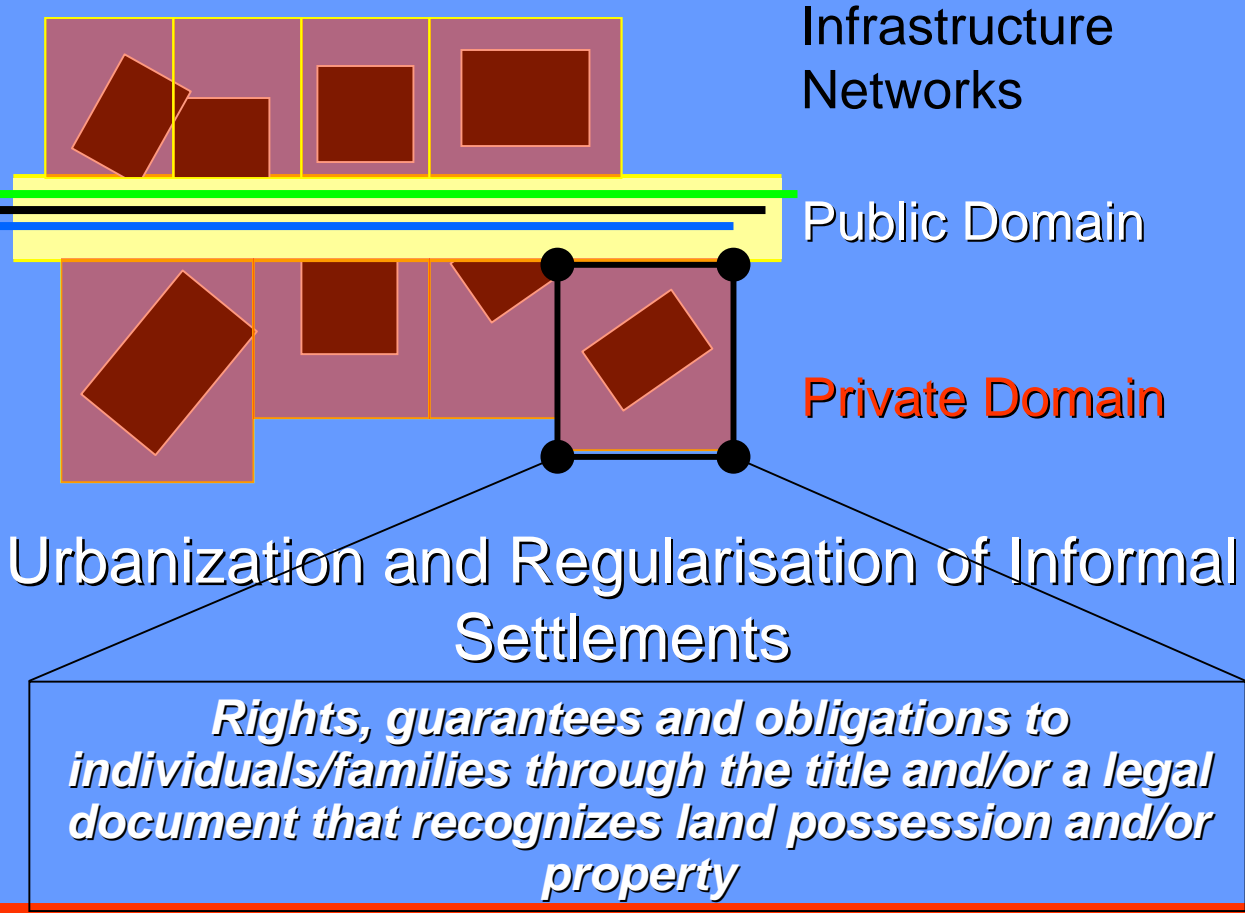
Totally Distinct Solutions, Approaches and Intervention Mechanisms

Spontaneous Occupations
Organised or Densification

X

Land Subdivisions
Guided and/or by Sell & Buy



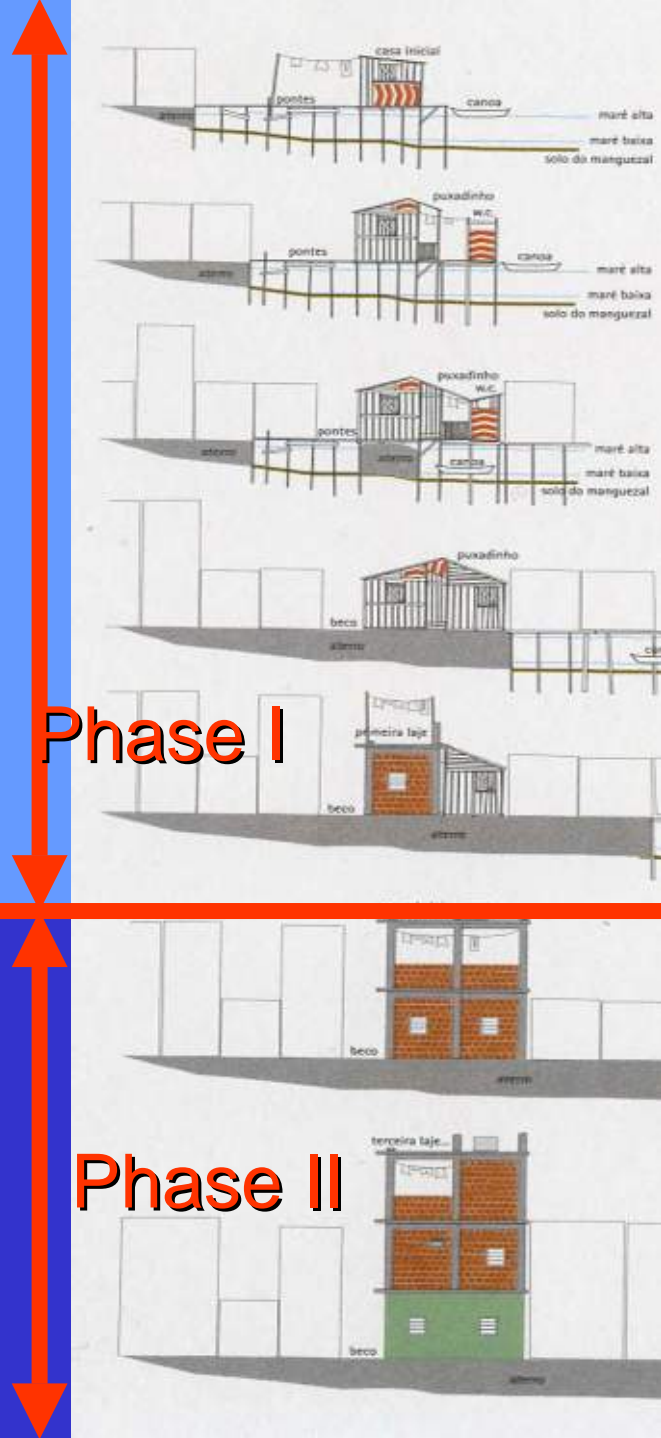


Urbanization and Regularisation of Informal Settlements

Rights, guarantees and obligations to individuals/families through the title and/or a legal document that recognizes land possession and/or property

Urbanistic & Building Regularisation

1. *Law Enforcement*
2. *Adjusting to current laws, norms and uses*
3. *Limits of Individual Actions*
4. *Regularization of the construction*
5. *Control Mechanisms on Urbanism*



Phase I

Phase II

6.

**The financial and
economic dimension of
SU programmes**

Table 1**Investment required to upgrade slums and provide alternatives to slums by 2020**

Intervention	Target population (millions)	Average cost per person (\$)	Total (\$ billions)	Source of investment (\$ billions)		
				Donors	Governments	Slum dwellers and future low-income urban residents
Upgrading slums	100	670	67	23	37	7
Providing alternatives to slums	570	400	227	78	126	22
Total	670	440	294	101	163	29

Note: Numbers in table may not sum to totals due to rounding.

Source: Task force estimates calculated based on data from UN-HABITAT 2003a; Flood 2004; World Bank 2003a; FISE 2004.

Table 8.3

Estimated per capita and total investment required to upgrade slums, by region, 2005–20

U.S. dollars per capita

Note: Numbers in table may not sum to totals due to rounding.

a. Calculated as 30 percent of the value of networked infrastructure.

b. Calculated as 10 percent of the overall costs of the rest of components.

Source: Flood 2004; World Bank 2003a; FISE 2004.

Component	Arab states, Turkey, and Iran	East Asia (including China) and Oceania	Latin America and the Caribbean	South Central Asia	Southeast Asia	Sub-Saharan Africa, Egypt, and Sudan
Construction of basic housing	472	338	488	306	324	125
Purchase of land or transfer	80	38	7	32	34	14
Relocation	55	20	27	11	15	14
Provision of networked infrastructure	235	51	235	51	51	145
Provision of bulk infrastructure ^a	71	15	71	15	15	44
Construction of schools and clinics	12	10	18	10	10	12
Construction of community facilities	15	10	15	10	10	10
Planning and oversight	268	81	230	121	126	117
Capacity building ^b	121	56	109	56	58	48
Total cost per person	1,328	619	1,200	612	643	528
Number of people (millions)	4	20	8	30	7	31
Total cost (\$ billions)	5.3	12.4	9.6	18.3	4.5	16.4

Costs of Infrastructure for Land Tracts Possible to be Urbanized

Water	10.64%
Sewerage	19.86%
Drainage	9.99%
Electricity & Publ Lighting	12.44%

Source: Analise de Habitacao Informal e Avaliacao de Programas de Urbanizacao de Favelas, MV Serra & D. Motta, World Bank, 2005.

Average Costs of Infrastructure for Normal and Complex Favelas

	<u>Normal</u>	<u>Complex</u>
Water	5.73%	7.53%
Sewerage	23.07%	18.00%
Drainage	26.69%	30.00%
Pavement	18.67%	18.72%
Landslide Protection	8.87%	25.62%
Relocation & Reconstruction	16.98%	(6-10% of families)

Source: Analise de Habitacao Informal e Avaliacao de Programas de Urbanizacao de Favelas, MV Serra & D. Motta, World Bank, 2005.

Average Costs: Slum Upgrading

	<u>ALL</u>	<u>Infrastructure</u>
Public Works	84.84%	7.53%
Infrastructure	55.71	100.00%
Pavement	14.635	4.62%
Water	2.93%	4.62%
Sewerage	13.02%	23.64%
Drainage	17.06%	32.61%
Creek Canalization	1.65%	0.927%
Risk Area Control	5.65%	8.30%
Relocation & Reconstruction	(6-10% of families)	
Landscape Improvement	075%	1.04%
Superstructure	13.59%	
Preliminary services	15.54%	
Engineering & Architecture Design	3.62%	
Project Management	11.54	

COSTS TO UPGRADE FAVELAS

Funds Necessary to Upgrade Favelas

	Population of the Favelas	Number of Families in Favela	Costs per Family	Total Investment
Belém	359.785	85.663	7.085,23	606.942.732,27
Belo Horizonte	723.323	172.220	1.145,87	197.341.458,57
Goiânia	158.962	37.848	10.997,79	416.245.403,33
Porto Alegre	287.161	68.372	4.997,78	341.706.548,23
Recife	781.426	186.054	5.957,23	1.108.365.335,71
Rio de Janeiro	1.092.783	260.186	7.147,65	1.859.721.526,18
Salvador	875.033	208.341	6.148,00	1.280.881.639,05
Santo André	120.500	28.690	8.713,29	249.988.439,29
Teresina	133.857	31.871	1.925,25	61.359.092,68
Vitória	86.462	20.586	5.454,16	112.280.376,65
Totales	4.619.292	1.099.831	-	6.234.832.551,96

COSTS TO UPGRADE FAVELAS

Existing Financial Resources

	total investment	Resources Mobilised	%
Belém	606.942.732,27	21.170.000,000	3,49
Belo Horizonte	197.341.458,57	58.087.000,000	29,43
Goiânia	416.245.403,33	30.179.000,000	7,25
Porto Alegre	341.706.548,23	18.940.000,000	5,54
Recife	1.108.365.335,71	8.200.000,000	0,74
Rio de Janeiro	1.859.721.526,18	926.000.000,000	49,79
Salvador	1.280.881.639,05	61.480.000,000	4,80
Santo André	249.988.439,29	22.949.000,000	9,18
Teresina	61.359.092,68	40.828.000,000	66,54
Vitória	112.280.376,65	78.600.000,000	70,00
Total	6.234.832.551,96	1.266.433.000,000	20,31