

Tropentag, Berlin

The Human Right to Adequate Food

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The 1996 World Food Summit in Rome

Promised to halve the **number** of chronically under-nourished people between **1996** and 2015. This implies an annual decline by **3.58%** (50% over 19 years).

“We pledge our political will and our common and national commitment to achieving food security for all and to an on-going effort to eradicate hunger in all countries, with an immediate [!] view to reducing the **number** of undernourished people to half their **present** level no later than 2015.”

| Rome Declaration on World Food Security | Number of Chronically Undernourished in Millions | Progress against Chronic Undernutrition |
|-----------------------------------------|--------------------------------------------------|-----------------------------------------|
| 1996 | 788 | |
| 2010 | | |
| 2015 target | | |

| Rome Declaration on World Food Security | Number of Chronically Undernourished in Millions | Progress against Chronic Undernutrition |
|-----------------------------------------|--------------------------------------------------|-----------------------------------------|
| 1996 | 788 | |
| 2010 | | |
| 2015 target | | -50% |

| Rome Declaration on World Food Security | Number of Chronically Undernourished in Millions | Progress against Chronic Undernutrition |
|-----------------------------------------|--------------------------------------------------|-----------------------------------------|
| 1996 | 788 | |
| 2010 | | |
| 2015 target | 394 | -50% |

| Rome Declaration on World Food Security | Number of Chronically Undernourished in Millions | Progress against Chronic Undernutrition |
|-----------------------------------------|--------------------------------------------------|-----------------------------------------|
| 1996 | 788 | |
| 2010 | 925 | |
| 2015 target | 394 | -50% |

| Rome Declaration on World Food Security | Number of Chronically Undernourished in Millions | Progress against Chronic Undernutrition |
|-----------------------------------------|--------------------------------------------------|-----------------------------------------|
| 1996 | 788 | |
| 2010 | 925 | +17% |
| 2015 target | 394 | -50% |

UNGA's Millennium Declaration, 2000

Pledges to halve the **proportion** of hungry people between **2000** and 2015. This implies an annual decline by **3.35%** (40% over 15 years).

“to halve, by the year 2015, the **proportion** of **the world's people** whose income is less than one dollar a day and the proportion of people who suffer from hunger.”

| Rome Declaration on World Food Security | Number of Chronically Undernourished in Millions | Progress against Chronic Undernutrition |
|------------------------------------------------|---------------------------------------------------------|------------------------------------------------|
| 1996 | 788 | |
| 2010 | 925 | +17% |
| 2015 target | 394 | -50% |

| Millennium Declaration | Number of Undernourished in Millions | World Population in Millions | Proportion Chronically Undernourished | Progress against Chronic Undernutrition |
|-------------------------------|---------------------------------------------|-------------------------------------|----------------------------------------------|------------------------------------------------|
| 2000 | 833 | | | |
| 2010 | | | | |
| 2015 target | | | | |

| Rome Declaration on World Food Security | Number of Chronically Undernourished in Millions | Progress against Chronic Undernutrition |
|------------------------------------------------|---------------------------------------------------------|------------------------------------------------|
| 1996 | 788 | |
| 2010 | 925 | +17% |
| 2015 target | 394 | -50% |

| Millennium Declaration | Number of Undernourished in Millions | World Population in Millions | Proportion Chronically Undernourished | Progress against Chronic Undernutrition |
|-------------------------------|---------------------------------------------|-------------------------------------|----------------------------------------------|------------------------------------------------|
| 2000 | 833 | 6321 | | |
| 2010 | | | | |
| 2015 target | | | | |

| Rome Declaration on World Food Security | Number of Chronically Undernourished in Millions | Progress against Chronic Undernutrition |
|------------------------------------------------|---------------------------------------------------------|------------------------------------------------|
| 1996 | 788 | |
| 2010 | 925 | +17% |
| 2015 target | 394 | -50% |

| Millennium Declaration | Number of Undernourished in Millions | World Population in Millions | Proportion Chronically Undernourished | Progress against Chronic Undernutrition |
|-------------------------------|---------------------------------------------|-------------------------------------|----------------------------------------------|------------------------------------------------|
| 2000 | 833 | 6321 | 0.1318 | |
| 2010 | | | | |
| 2015 target | | | | |

| Rome Declaration on World Food Security | Number of Chronically Undernourished in Millions | Progress against Chronic Undernutrition |
|------------------------------------------------|---------------------------------------------------------|------------------------------------------------|
| 1996 | 788 | |
| 2010 | 925 | +17% |
| 2015 target | 394 | -50% |

| Millennium Declaration | Number of Undernourished in Millions | World Population in Millions | Proportion Chronically Undernourished | Progress against Chronic Undernutrition |
|-------------------------------|---------------------------------------------|-------------------------------------|----------------------------------------------|------------------------------------------------|
| 2000 | 833 | 6321 | 0.1318 | |
| 2010 | | | | |
| 2015 target | | | | -50% |

| Rome Declaration on World Food Security | Number of Chronically Undernourished in Millions | Progress against Chronic Undernutrition |
|------------------------------------------------|---------------------------------------------------------|------------------------------------------------|
| 1996 | 788 | |
| 2010 | 925 | +17% |
| 2015 target | 394 | -50% |

| Millennium Declaration | Number of Undernourished in Millions | World Population in Millions | Proportion Chronically Undernourished | Progress against Chronic Undernutrition |
|-------------------------------|---------------------------------------------|-------------------------------------|----------------------------------------------|------------------------------------------------|
| 2000 | 833 | 6321 | 0.1318 | |
| 2010 | | | | |
| 2015 target | | | 0.0659 | -50% |

| Rome Declaration on World Food Security | Number of Chronically Undernourished in Millions | Progress against Chronic Undernutrition |
|------------------------------------------------|---------------------------------------------------------|------------------------------------------------|
| 1996 | 788 | |
| 2010 | 925 | +17% |
| 2015 target | 394 | -50% |

| Millennium Declaration | Number of Undernourished in Millions | World Population in Millions | Proportion Chronically Undernourished | Progress against Chronic Undernutrition |
|-------------------------------|---------------------------------------------|-------------------------------------|----------------------------------------------|------------------------------------------------|
| 2000 | 833 | 6321 | 0.1318 | |
| 2010 | | | | |
| 2015 target | | 7284 | 0.0659 | -50% |

| Rome Declaration on World Food Security | Number of Chronically Undernourished in Millions | Progress against Chronic Undernutrition |
|------------------------------------------------|---------------------------------------------------------|------------------------------------------------|
| 1996 | 788 | |
| 2010 | 925 | +17% |
| 2015 target | 394 | -50% |

| Millennium Declaration | Number of Undernourished in Millions | World Population in Millions | Proportion Chronically Undernourished | Progress against Chronic Undernutrition |
|-------------------------------|---------------------------------------------|-------------------------------------|----------------------------------------------|------------------------------------------------|
| 2000 | 833 | 6321 | 0.1318 | |
| 2010 | | | | |
| 2015 target | 480 | 7284 | 0.0659 | -50% |

| Rome Declaration on World Food Security | Number of Chronically Undernourished in Millions | Progress against Chronic Undernutrition |
|-----------------------------------------|--------------------------------------------------|-----------------------------------------|
| 1996 | 788 | |
| 2010 | 925 | +17% |
| 2015 target | 394 | -50% |

| Millennium Declaration | Number of Undernourished in Millions | World Population in Millions | Proportion Chronically Undernourished | Progress against Chronic Undernutrition |
|------------------------|--------------------------------------|------------------------------|---------------------------------------|-----------------------------------------|
| 2000 | 833 | 6321 | 0.1318 | |
| 2010 | 925 | | | |
| 2015 target | 480 | 7284 | 0.0659 | -50% |

| Rome Declaration on World Food Security | Number of Chronically Undernourished in Millions | Progress against Chronic Undernutrition |
|-----------------------------------------|--------------------------------------------------|-----------------------------------------|
| 1996 | 788 | |
| 2010 | 925 | +17% |
| 2015 target | 394 | -50% |

| Millennium Declaration | Number of Undernourished in Millions | World Population in Millions | Proportion Chronically Undernourished | Progress against Chronic Undernutrition |
|------------------------|--------------------------------------|------------------------------|---------------------------------------|-----------------------------------------|
| 2000 | 833 | 6321 | 0.1318 | |
| 2010 | 925 | 6896 | | |
| 2015 target | 480 | 7284 | 0.0659 | -50% |

| Rome Declaration on World Food Security | Number of Chronically Undernourished in Millions | Progress against Chronic Undernutrition |
|------------------------------------------------|---------------------------------------------------------|------------------------------------------------|
| 1996 | 788 | |
| 2010 | 925 | +17% |
| 2015 target | 394 | -50% |

| Millennium Declaration | Number of Undernourished in Millions | World Population in Millions | Proportion Chronically Undernourished | Progress against Chronic Undernutrition |
|-------------------------------|---------------------------------------------|-------------------------------------|----------------------------------------------|------------------------------------------------|
| 2000 | 833 | 6321 | 0.1318 | |
| 2010 | 925 | 6896 | 0.1341 | |
| 2015 target | 480 | 7284 | 0.0659 | -50% |

| Rome Declaration on World Food Security | Number of Chronically Undernourished in Millions | Progress against Chronic Undernutrition |
|------------------------------------------------|---------------------------------------------------------|------------------------------------------------|
| 1996 | 788 | |
| 2010 | 925 | +17% |
| 2015 target | 394 | -50% |

| Millennium Declaration | Number of Undernourished in Millions | World Population in Millions | Proportion Chronically Undernourished | Progress against Chronic Undernutrition |
|-------------------------------|---------------------------------------------|-------------------------------------|----------------------------------------------|------------------------------------------------|
| 2000 | 833 | 6321 | 0.1318 | |
| 2010 | 925 | 6896 | 0.1341 | +2% |
| 2015 target | 480 | 7284 | 0.0659 | -50% |

The First Millennium Development Goal

Pledges to halve the **proportion** of chronically undernourished people **in the population of the developing countries** between **1990** and 2015. This implies an annual decline in their number by **1.37%** (29% over 25 years).

MDG-1: “Target. Halve, between 1990 and 2015, the proportion of people [in the developing regions] who suffer from hunger.”

UN: The Millennium Development Goals Report 2012, p. 11;
www.un.org/millenniumgoals

| Rome Declaration on World Food Security | Number of Chronically Undernourished in Millions | Progress against Chronic Undernutrition |
|------------------------------------------------|---------------------------------------------------------|------------------------------------------------|
| 1996 | 788 | |
| 2010 | 925 | +17% |
| 2015 target | 394 | -50% |

| MDG1 | Number of DC Undernourished in Millions | DC Population in Millions | Proportion Chronically Undernourished | Progress against DC Chronic Undernutrition |
|--------------------|------------------------------------------------|----------------------------------|----------------------------------------------|---------------------------------------------------|
| 1990 | 843 | | | |
| 2010 | | | | |
| 2015 target | | | | |

| Rome Declaration on World Food Security | Number of Chronically Undernourished in Millions | Progress against Chronic Undernutrition |
|------------------------------------------------|---------------------------------------------------------|------------------------------------------------|
| 1996 | 788 | |
| 2010 | 925 | +17% |
| 2015 target | 394 | -50% |

| MDG1 | Number of DC Undernourished in Millions | DC Population in Millions | Proportion Chronically Undernourished | Progress against DC Chronic Undernutrition |
|--------------------|------------------------------------------------|----------------------------------|----------------------------------------------|---------------------------------------------------|
| 1990 | 843 | 4162 | | |
| 2010 | | | | |
| 2015 target | | | | |

| Rome Declaration on World Food Security | Number of Chronically Undernourished in Millions | Progress against Chronic Undernutrition |
|------------------------------------------------|---------------------------------------------------------|------------------------------------------------|
| 1996 | 788 | |
| 2010 | 925 | +17% |
| 2015 target | 394 | -50% |

| MDG1 | Number of DC Undernourished in Millions | DC Population in Millions | Proportion Chronically Undernourished | Progress against DC Chronic Undernutrition |
|--------------------|------------------------------------------------|----------------------------------|----------------------------------------------|---------------------------------------------------|
| 1990 | 843 | 4162 | 0.2026 | |
| 2010 | | | | |
| 2015 target | | | | |

| Rome Declaration on World Food Security | Number of Chronically Undernourished in Millions | Progress against Chronic Undernutrition |
|------------------------------------------------|---------------------------------------------------------|------------------------------------------------|
| 1996 | 788 | |
| 2010 | 925 | +17% |
| 2015 target | 394 | -50% |

| MDG1 | Number of DC Undernourished in Millions | DC Population in Millions | Proportion Chronically Undernourished | Progress against DC Chronic Undernutrition |
|--------------------|------------------------------------------------|----------------------------------|----------------------------------------------|---------------------------------------------------|
| 1990 | 843 | 4162 | 0.2026 | |
| 2010 | | | | |
| 2015 target | | | | -50% |

| Rome Declaration on World Food Security | Number of Chronically Undernourished in Millions | Progress against Chronic Undernutrition |
|------------------------------------------------|---------------------------------------------------------|------------------------------------------------|
| 1996 | 788 | |
| 2010 | 925 | +17% |
| 2015 target | 394 | -50% |

| MDG1 | Number of DC Undernourished in Millions | DC Population in Millions | Proportion Chronically Undernourished | Progress against DC Chronic Undernutrition |
|--------------------|------------------------------------------------|----------------------------------|----------------------------------------------|---------------------------------------------------|
| 1990 | 843 | 4162 | 0.2026 | |
| 2010 | | | | |
| 2015 target | | | 0.1013 | -50% |

| Rome Declaration on World Food Security | Number of Chronically Undernourished in Millions | Progress against Chronic Undernutrition |
|------------------------------------------------|---------------------------------------------------------|------------------------------------------------|
| 1996 | 788 | |
| 2010 | 925 | +17% |
| 2015 target | 394 | -50% |

| MDG1 | Number of DC Undernourished in Millions | DC Population in Millions | Proportion Chronically Undernourished | Progress against DC Chronic Undernutrition |
|--------------------|------------------------------------------------|----------------------------------|----------------------------------------------|---------------------------------------------------|
| 1990 | 843 | 4162 | 0.2026 | |
| 2010 | | | | |
| 2015 target | | 6028 | 0.1013 | -50% |

| Rome Declaration on World Food Security | Number of Chronically Undernourished in Millions | Progress against Chronic Undernutrition |
|-----------------------------------------|--------------------------------------------------|-----------------------------------------|
| 1996 | 788 | |
| 2010 | 925 | +17% |
| 2015 target | 394 | -50% |

| MDG1 | Number of DC Undernourished in Millions | DC Population in Millions | Proportion Chronically Undernourished | Progress against DC Chronic Undernutrition |
|-------------|-----------------------------------------|---------------------------|---------------------------------------|--------------------------------------------|
| 1990 | 843 | 4162 | 0.2026 | |
| 2010 | | | | |
| 2015 target | 611 | 6028 | 0.1013 | -50% |

| Rome Declaration on World Food Security | | Number of Chronically Undernourished in Millions | | Progress against Chronic Undernutrition | |
|-----------------------------------------|-----------------------------------------|--------------------------------------------------|---------------------------------------|--------------------------------------------|--|
| 1996 | | 788 | | | |
| 2010 | | 925 | | +17% | |
| 2015 target | | 394 | | -50% | |
| MDG1 | Number of DC Undernourished in Millions | DC Population in Millions | Proportion Chronically Undernourished | Progress against DC Chronic Undernutrition | |
| 1990 | 843 | 4162 | 0.2026 | | |
| 2010 | 910 | | | | |
| 2015 target | 611 | 6028 | 0.1013 | -50% | |

| Rome Declaration on World Food Security | Number of Chronically Undernourished in Millions | Progress against Chronic Undernutrition |
|-----------------------------------------|--------------------------------------------------|-----------------------------------------|
| 1996 | 788 | |
| 2010 | 925 | +17% |
| 2015 target | 394 | -50% |

| MDG1 | Number of DC Undernourished in Millions | DC Population in Millions | Proportion Chronically Undernourished | Progress against DC Chronic Undernutrition |
|-------------|-----------------------------------------|---------------------------|---------------------------------------|--------------------------------------------|
| 1990 | 843 | 4162 | 0.2026 | |
| 2010 | 910 | 5660 | | |
| 2015 target | 611 | 6028 | 0.1013 | -50% |

| Rome Declaration on World Food Security | Number of Chronically Undernourished in Millions | Progress against Chronic Undernutrition |
|-----------------------------------------|--------------------------------------------------|-----------------------------------------|
| 1996 | 788 | |
| 2010 | 925 | +17% |
| 2015 target | 394 | -50% |

| MDG1 | Number of DC Undernourished in Millions | DC Population in Millions | Proportion Chronically Undernourished | Progress against DC Chronic Undernutrition |
|-------------|-----------------------------------------|---------------------------|---------------------------------------|--------------------------------------------|
| 1990 | 843 | 4162 | 0.2026 | |
| 2010 | 910 | 5660 | 0.1608 | |
| 2015 target | 611 | 6028 | 0.1013 | -50% |

| Rome Declaration on World Food Security | Number of Chronically Undernourished in Millions | Progress against Chronic Undernutrition |
|-----------------------------------------|--------------------------------------------------|-----------------------------------------|
| 1996 | 788 | |
| 2010 | 925 | +17% |
| 2015 target | 394 | -50% |

| MDG1 | Number of DC Undernourished in Millions | DC Population in Millions | Proportion Chronically Undernourished | Progress against DC Chronic Undernutrition |
|-------------|-----------------------------------------|---------------------------|---------------------------------------|--------------------------------------------|
| 1990 | 843 | 4162 | 0.2026 | |
| 2010 | 910 | 5660 | 0.1608 | -21% |
| 2015 target | 611 | 6028 | 0.1013 | -50% |

| Year | Undernourished in Millions (2011) | ... with “improved” methodology (2012) |
|------------------|----------------------------------------------|---------------------------------------------------|
| 1969–1971 | 878 | |
| 1979–1981 | 853 | |
| 1990–1992 | 843 | |
| 1995–1997 | 788 | |
| 2000–2002 | 833 | |
| 2005–2007 | 848 | |
| 2008 | 963 | |
| 2009 | 1023 | |
| 2010 | 925 | |

UN Food and Agriculture Organization (www.fao.org)

| Year | Undernourished in Millions (2011) | ... with “improved” methodology (2012) |
|------------------|----------------------------------------------|---------------------------------------------------|
| 1969–1971 | 878 | |
| 1979–1981 | 853 | |
| 1990–1992 | 843 | 1000 |
| 1995–1997 | 788 | |
| 2000–2002 | 833 | |
| 2005–2007 | 848 | |
| 2008 | 963 | |
| 2009 | 1023 | |
| 2010 | 925 | |

| Year | Undernourished in Millions (2011) | ... with “improved” methodology (2012) |
|------------------|----------------------------------------------|---------------------------------------------------|
| 1969–1971 | 878 | |
| 1979–1981 | 853 | |
| 1990–1992 | 843 | 1000 |
| 1995–1997 | 788 | |
| 2000–2002 | 833 | |
| 2005–2007 | 848 | |
| 2008 | 963 | |
| 2009 | 1023 | 867 |
| 2010 | 925 | 868 |

| Year | Undernourished in Millions (2011) | ... with “improved” methodology (2012) |
|------------------|----------------------------------------------|---------------------------------------------------|
| 1969–1971 | 878 | |
| 1979–1981 | 853 | |
| 1990–1992 | 843 | 1000 |
| 1995–1997 | 788 | 931 |
| 2000–2002 | 833 | 922 |
| 2005–2007 | 848 | 884 |
| 2008 | 963 | 867 |
| 2009 | 1023 | 867 |
| 2010 | 925 | 868 |

| FAO World Food Price Index | Nominal | Real (deflated) |
|-----------------------------------|----------------|------------------------|
| 2000 | 91.1 | 92.4 |
| 2002 | 89.6 | 96.2 |
| 2004 | 112.7 | 105.0 |
| 2006 | 127.2 | 112.7 |
| 2008 | 201.4 | 155.7 |
| 2010 | 188.0 | 150.7 |
| 2011 | 229.9 | 169.9 |
| 2013 | 209.8 | 159.9 |
| 2014 | 208.8 | 156.1 |

Allowable Millions of Undernourished 2015

| | | |
|-------------------------------------------------|------------------------|--|
| Rome Declaration | 394m | |
| UNGA Millennium Declaration | 480m | |
| MDG 1 | 611m | |
| Progress Achieved by 2010 (target: -50%) | Old Methodology | |
| Rome Declaration | +17% | |
| UNGA Millennium Declaration | +2% | |
| MDG 1 | -21% | |

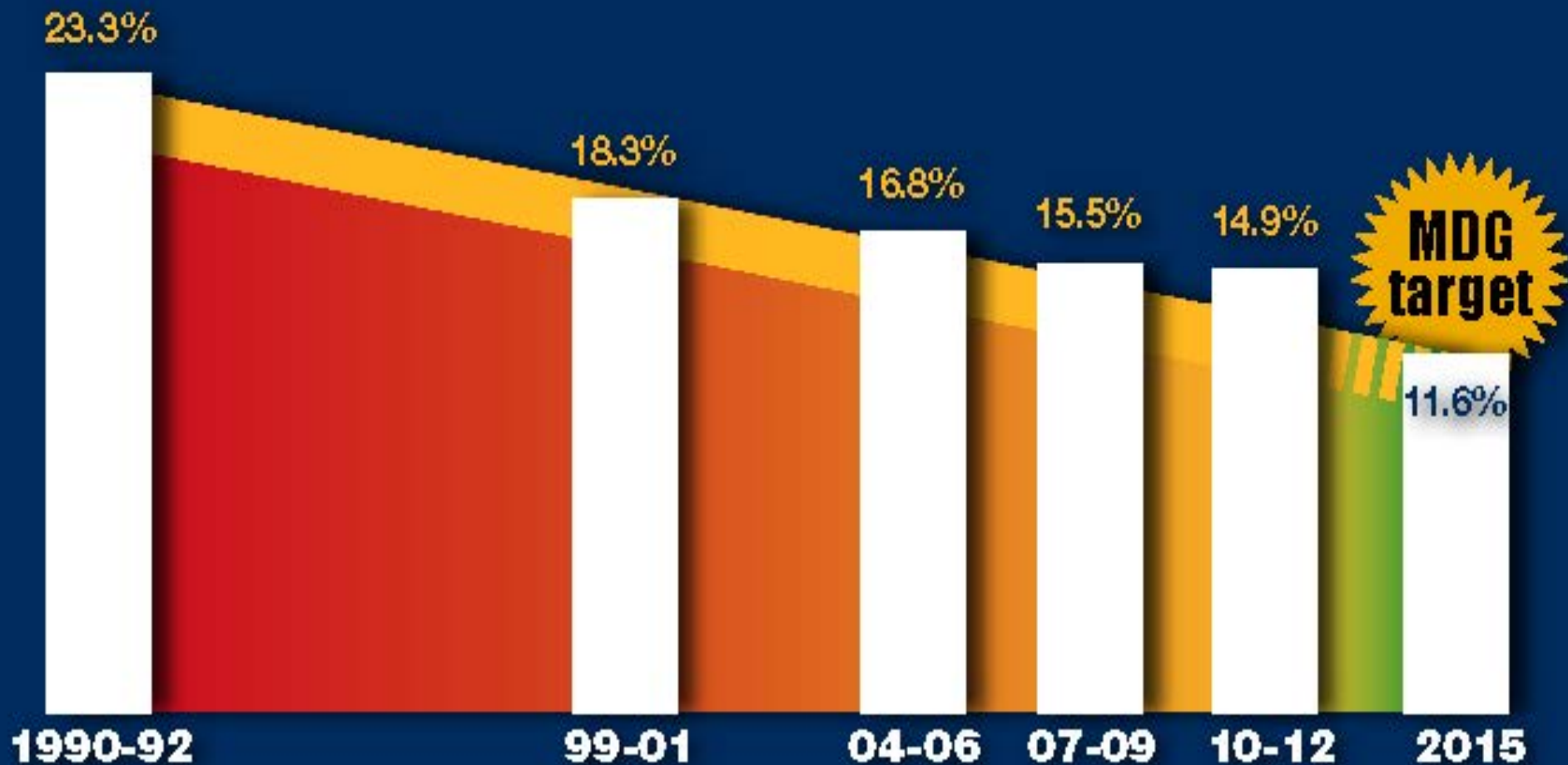
Allowable Number of Undernourished 2015

| | | |
|-------------------------------------------------|------------------------|-------------------------------|
| Rome Declaration | 394m | |
| UNGA Millennium Declaration | 480m | |
| MDG 1 | 611m | 724m |
| Progress Achieved by 2010 (target: -50%) | Old Methodology | “Improved” Methodology |
| Rome Declaration | +17% | |
| UNGA Millennium Declaration | +2% | |
| MDG 1 | -21% | |

Allowable Number of Undernourished 2015

| | | |
|-------------------------------------------------|------------------------|-------------------------------|
| Rome Declaration | 394m | |
| UNGA Millennium Declaration | 480m | |
| MDG 1 | 611m | 724m |
| Progress Achieved by 2010 (target: -50%) | Old Methodology | “Improved” Methodology |
| Rome Declaration | +17% | |
| UNGA Millennium Declaration | +2% | |
| MDG 1 | -21% | -36% |

MDG 1: 2015



Conclusion (for SDGs)

The **definitions and measurement methods** involved in development targets must not be allowed to be revised midway; and the **tracking of progress** must not be entrusted to politically exposed agencies like the FAO and the World Bank, but should be left to an independent international group of top-level academic experts. Example: the MDG hunger target.

The FAO's “Improved Methodology” (2012)

A person counts as **undernourished/hungry** only if her/his

(a) “**food energy availability** [no other nutrient deficiencies count]

(b) is inadequate to cover **even minimum needs for a sedentary lifestyle**”

(c) for “**over a year.**”

Die neue Definition der FAO (2012)

UN Food and Agriculture Organization:

“the reference period should be long enough for the consequences of low food intake to be **detrimental to health**. Although there is no doubt that temporary food shortage may be stressful, the FAO indicator is based on a full year.”

First Argument for New Methodology

At the moment, few surveys accurately capture habitual food consumption at the individual level and collect sufficient information on the anthropometric characteristics and activity levels of each surveyed individual; in other words, very few surveys would allow for an estimation of the relevant energy requirement threshold at the individual level.

Second Argument for New Methodology

Within the population, there is a range of values for energy requirements that are compatible with healthy status, given that body weight, metabolic efficiency and physical activity levels vary. **It follows that only values below the minimum of such a range can be associated with undernourishment, in a probabilistic sense.** Hence, for the PoU [prevalence of undernourishment] to indicate that a randomly selected individual in a population is undernourished, the appropriate threshold is the lower end of the range of energy requirements.