

Key Idea 1: Sustainable development is an important concept

The question of deciding whether something is 'sustainable' or not crops up a lot in geography. Often the question occurs when a new project is being developed, such as The Three Gorges Dam from Unit 2 (Chapter 12).

Sustainable development was defined in the United Nations World Commission on Environment and Development (WCED) report 'Our Common Future' (1987). The definition below is often called the 'Brundtland' definition, after the chairperson of the WCED, Gro Harlem Brundtland:

'Sustainable development is development that meets the needs of the present without compromising the ability of future generations to meet their own needs.'

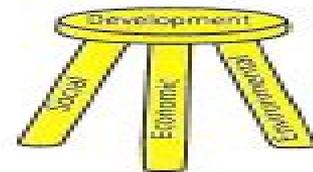
This definition suggests that **human development** is sustainable when:

- it meets the needs of people today, i.e. incomes and quality of life improve
- development today does not reduce quality of life for people in the future.

One way of deciding whether development is sustainable is to use the stool of sustainability model (Figure 1).

This uses three criteria (social, economic and environmental) to judge whether development is sustainable. If one of the legs is judged to be unsustainable then the stool will 'fall over'.

Figure 1 The stool of sustainability



Key features	Sustainable development	Unsustainable development
Social	<ul style="list-style-type: none"> • Directly improves life, such as better education, health and housing • Promotes equality between different groups 	<ul style="list-style-type: none"> • Excludes some people, such as women or an ethnic minority group, increasing inequality • Imposed on people from above, so they have no say in decision-making
Economic	<ul style="list-style-type: none"> • Increases income for many people long term, so quality of life improves • Proves to be good value for money, benefiting the most people for the least cost 	<ul style="list-style-type: none"> • Leads to debt, which future generations will have to pay back • Only makes a small number of people wealthy and increases inequality
Environmental	<ul style="list-style-type: none"> • Helps conserve biodiversity, e.g. selective logging rather than large-scale deforestation • Uses non-polluting and renewable resources 	<ul style="list-style-type: none"> • Wastes finite natural resources, e.g. fossil fuels, which are then not available in the future • Causes pollution, e.g. industry polluting the air and water, that future generations will have to clean up

Check your understanding

Tested

What is the definition of sustainable development?

Knowing the basics

Sustainable development is important because what humans do today should not make life harder for future generations.

Questions to think about:

- 1 Re-examine the Three Gorges Dam project on page 94. Do you think this project was economically, socially and environmentally sustainable?
- 2 Are bottom-up development projects (page 93) more sustainable than top-down ones?
- 3 Is there such a thing as a sustainable level of population? (See Unit 2, Chapter 9.)

Stretch and challenge

In reality, no development is 100 per cent sustainable. There will always be some negative impacts on the environment and/or some people. The trick is to try and minimise these negative impacts as far as possible.

Making Geographical Decisions Uganda

G Psacharopoulos



Making Geographical Decisions Uganda:

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programming problem $\max s = t_1 + 3t_2 + 5t_3 + 2t_4$ $x_1 + 2x_2 + 3x_3 + 4x_4 \leq 3$ $2x_1 + x_2 + x_3 + 2x_4 \leq 4$ $x_1 + x_2 + x_3 + x_4 \leq 2$ solution the problem in standard form is the initial tableau is $\min s = t_1 + t_2$

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