



SUSTAINABLE DEVELOPMENT GOALS

1 NO POVERTY

2 ZERO HUNGER

3 GOOD HEALTH AND WELL-BEING

4 QUALITY EDUCATION

5 GENDER EQUALITY

6 CLEAN WATER AND SANITATION

7 AFFORDABLE AND CLEAN ENERGY

8 DECENT WORK AND ECONOMIC GROWTH

9 INDUSTRY, INNOVATION AND INFRASTRUCTURE

10 REDUCED INEQUALITIES

11 SUSTAINABLE CITIES AND COMMUNITIES

12 RESPONSIBLE CONSUMPTION AND PRODUCTION

13 CLIMATE ACTION

14 LIFE BELOW WATER

15 LIFE ON LAND

16 PEACE, JUSTICE AND STRONG INSTITUTIONS

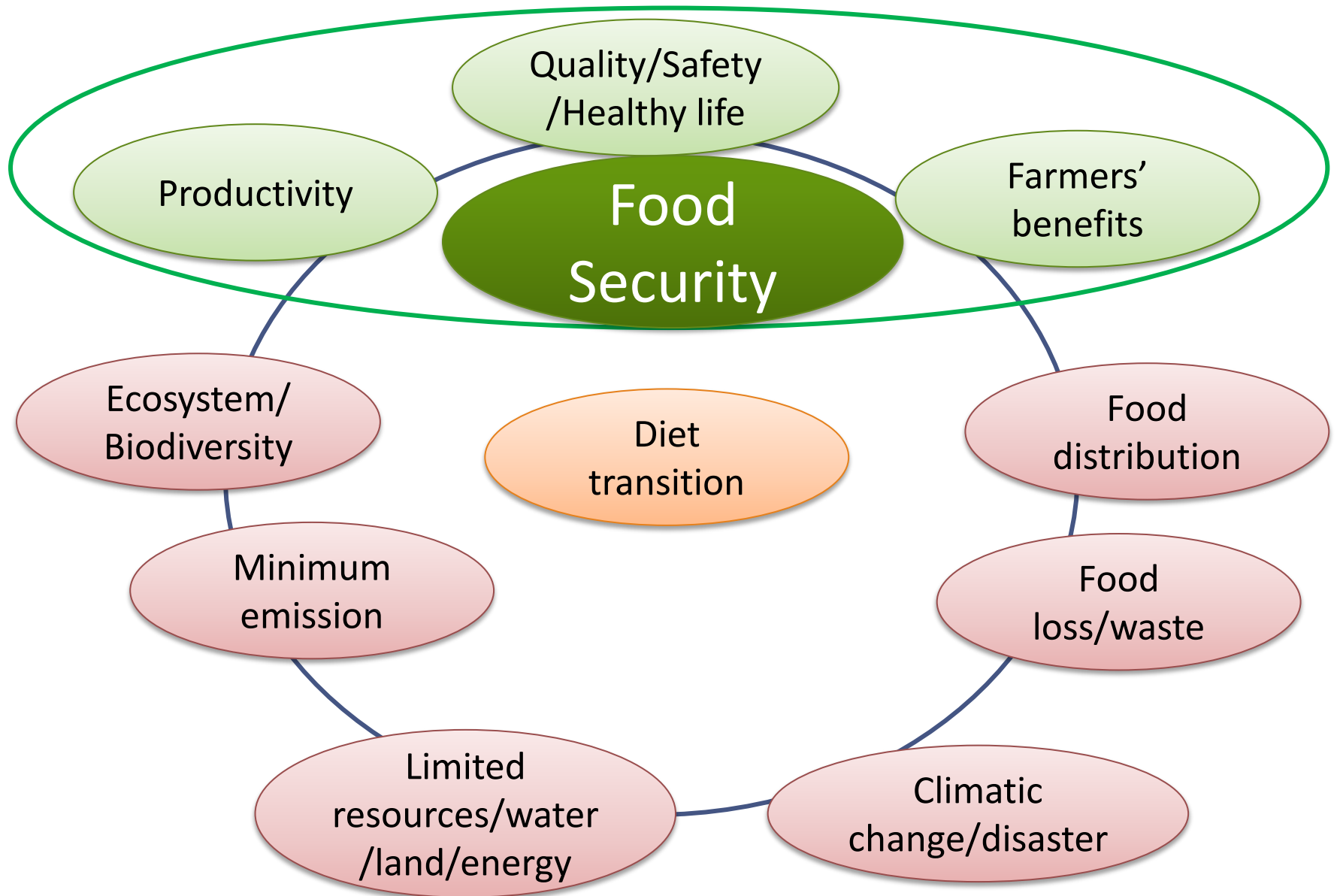
17 PARTNERSHIPS FOR THE GOALS

SUSTAINABLE DEVELOPMENT GOALS



- Agriculture
 - Basis of human life
 - Highly related to rural society & development
- Food in the 21st Century
 - Food is not just something to feed us anymore
 - Food is a key factor to enjoy economic growth
 - Food is a basis of healthy and quality life
 - Food is a part of the expression of own culture

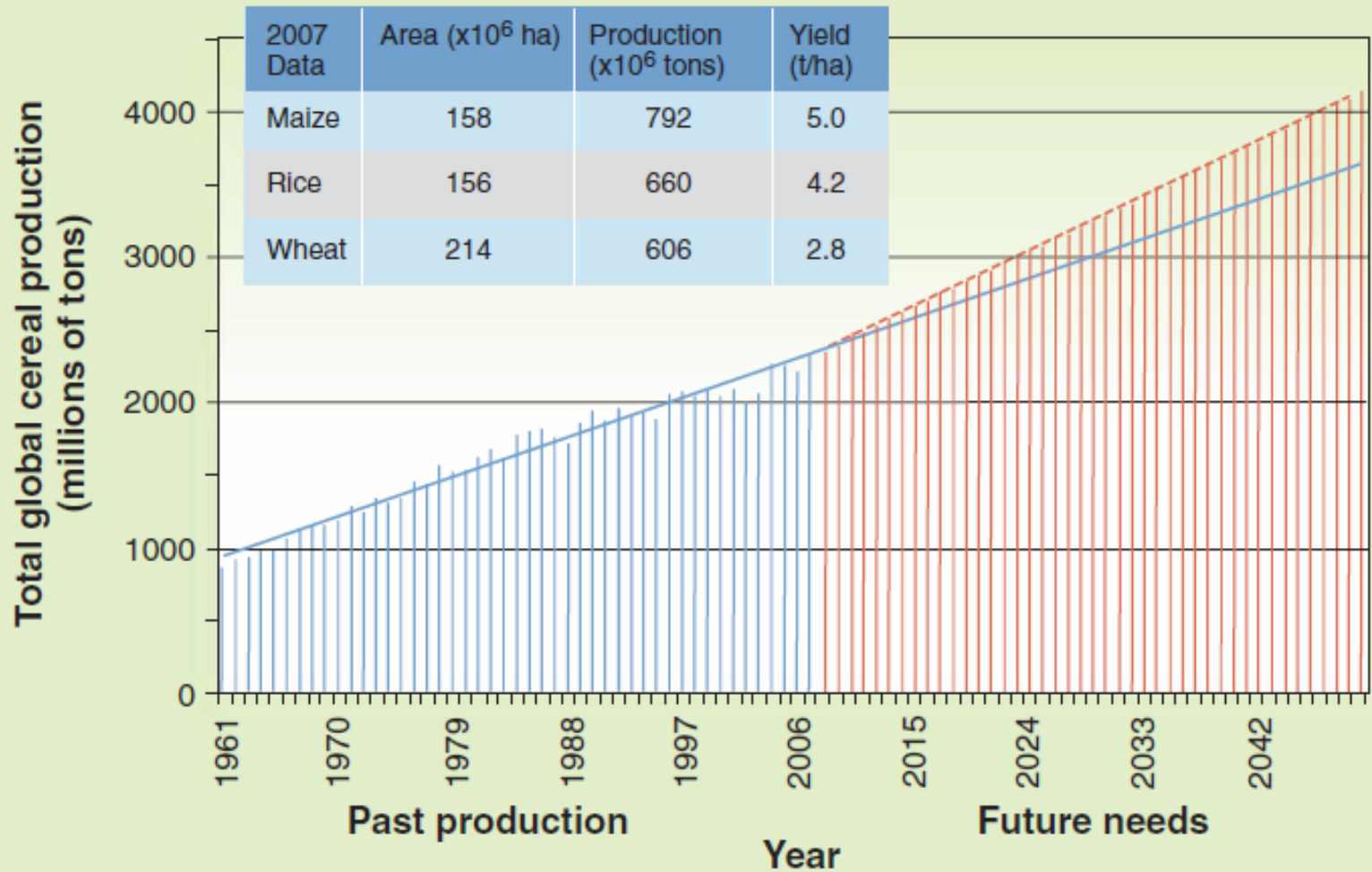
Toward sustainable and sufficient rich food production





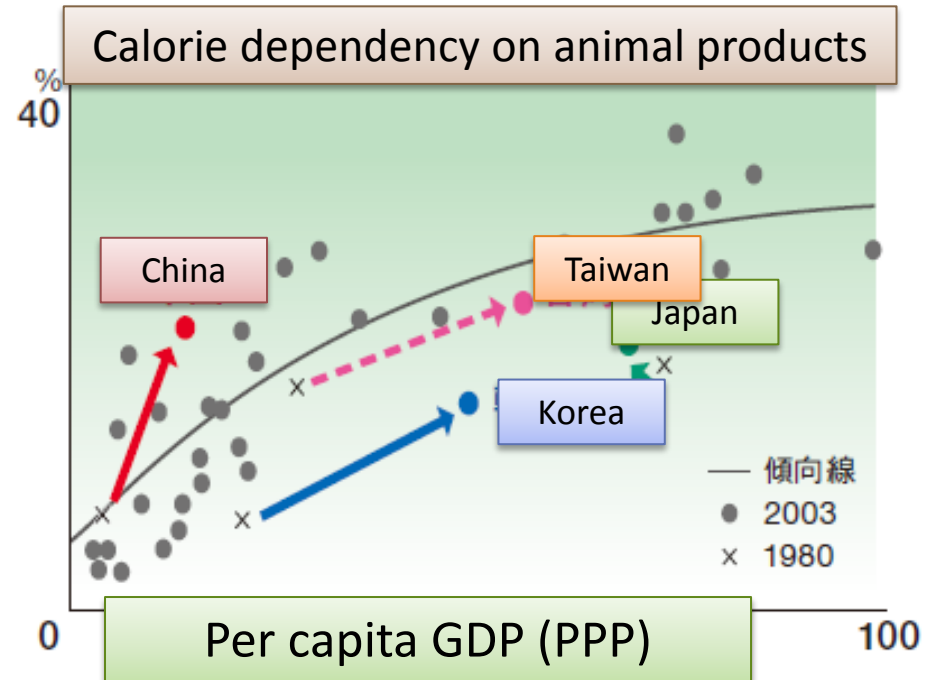
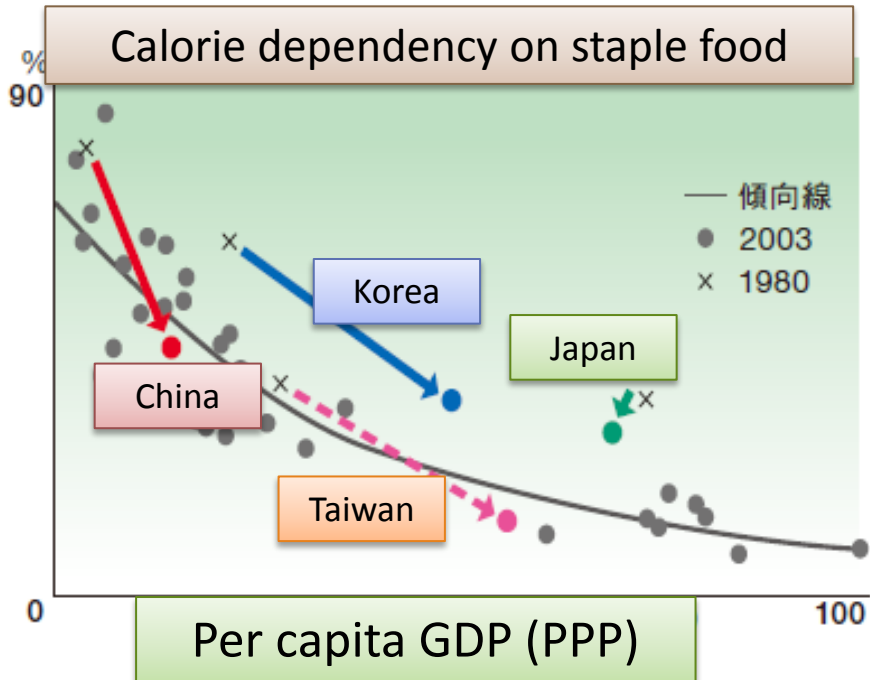
サーモンとほうれん草のキッシュ

Food demand increases

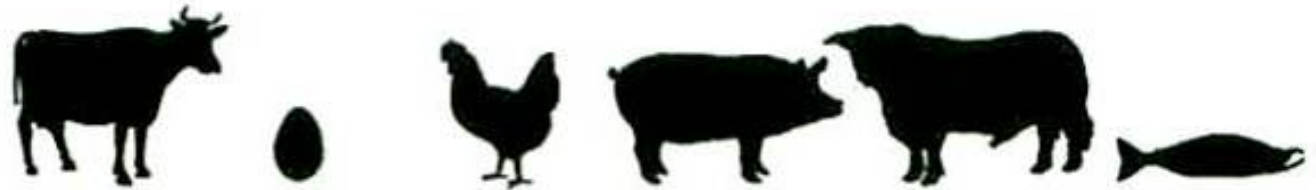


Diet transition happens with economic growth

Production efficiency of animal product is much lower than staple food



Very inefficient meat production



Milk

Egg

Chicken

Pork

Beef

Fish

Grain needed to
produce 1kg of
product (kg)

1.1

2.8

4.5

7.3

20.0

1.4

Nitrogen uptake (%)

30

30

20

10

5

40

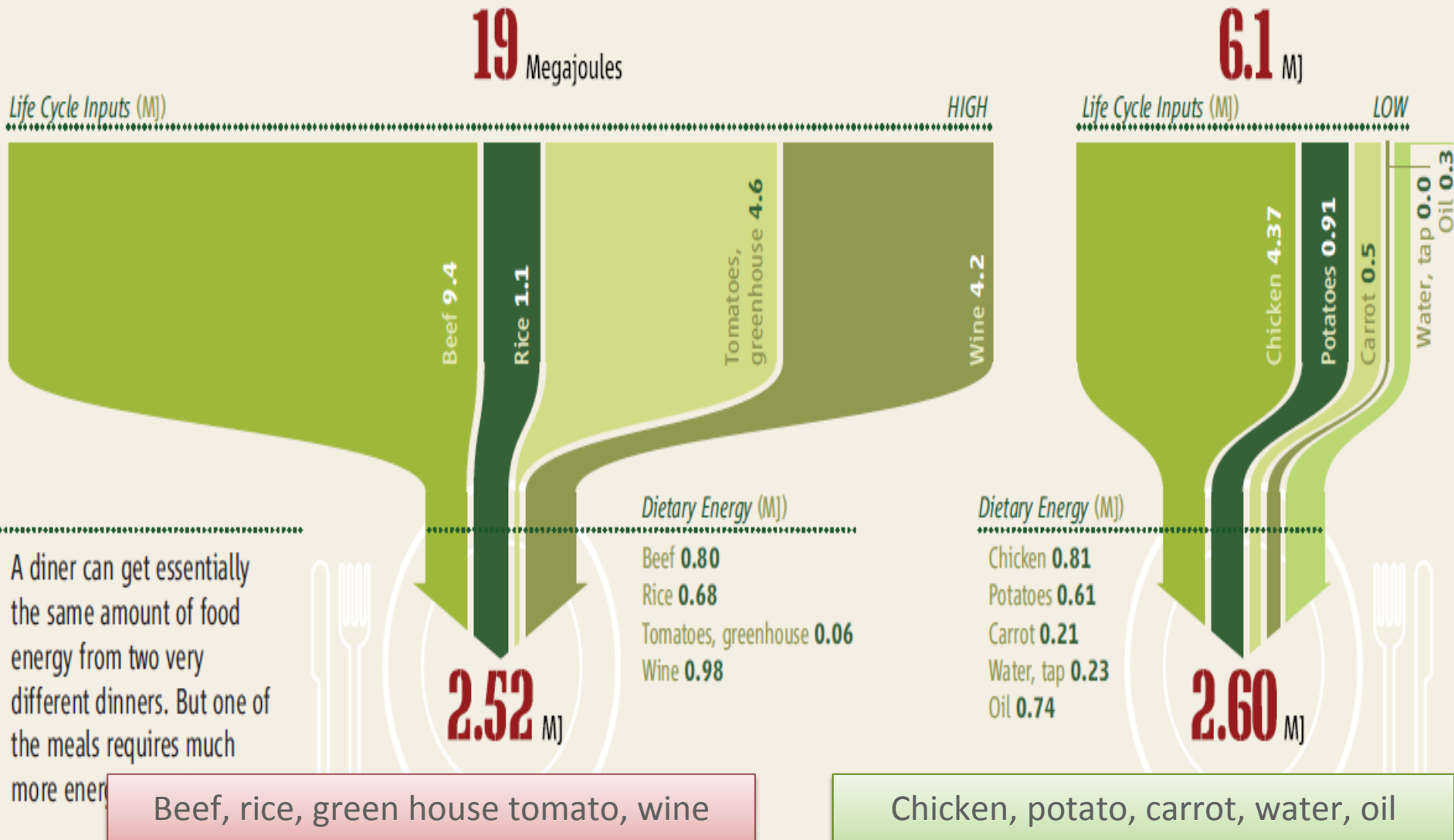
Water consumption for food production

- Water needed to produce 1 kg of agricultural product

Products	Water (t)	Products	Water (t)
Rice	3.6	Beef	20.6
Barley	2.6	Pork	5.9
Wheat	2.0	Chicken	4.5
Corn	1.9	Egg	3.2
Soybean	2.5		

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TABLE FOR ONE: Which Is the Greener Plate?



A diner can get essentially the same amount of food energy from two very different dinners. But one of the meals requires much more energy.

SOURCE: Carlsson-Kanyama, A. et al., *Ecological Economics* 44, Issues 2-3 (March 2003)