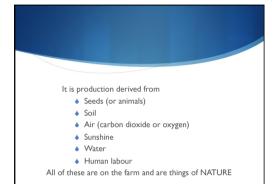




## What is agriculture?





Economics measures what is bought and sold. Two things sit uneasily with it:

Anything acquired directly from nature – 'free goods'

Non-market consequences of economic activity – 'externalities'

In agriculture, economics sits most easily with the farmer's external inputs. These fit the paradigm of industrial production for commerce.

For millennia, farmers have used the methods of nature to fertilise and protect their crops, feed their animals and so on

But since the 1950s, something called conventional agriculture has developed alongside this. It is based on the commercial paradigm, and assumes the beneficial use of many external inputs.

• Some call it industrial agriculture

Things akin to the traditional methods are now called agro-

ecology - agriculture that works with the grain of ecology

The basic paradigm of agriculture, rooted in nature, is at odds with that of conventional economics, with its emphasis on commercial transactions and monetary incomes

Economics is often said to be essentially about the *allocation of scarce resources*. And yet the aim of continually maximising wealth and income is at odds with a finite planet. It requires the continually expanding exploitation of natural 'resource-es' expensions are the same to the needs of a genuinely resource-limited world and of forms of production that are based on nature.

Economics also privileges **atomistic** exchange transactions as the basis for economic activity and organisation. But there are two other, collective forms:

- Vertical: administrative structures, typical of the state and the company
- Horizontal: the commons, mutual societies, co-operatives, public services under democratic rule

All three have their merits and their drawbacks, and they often co-exist in one system or organisation

Truly scientific economic analysis would assess them on their merits, and regard nature as its basis, not an 'externality'