

Circular economy in agriculture

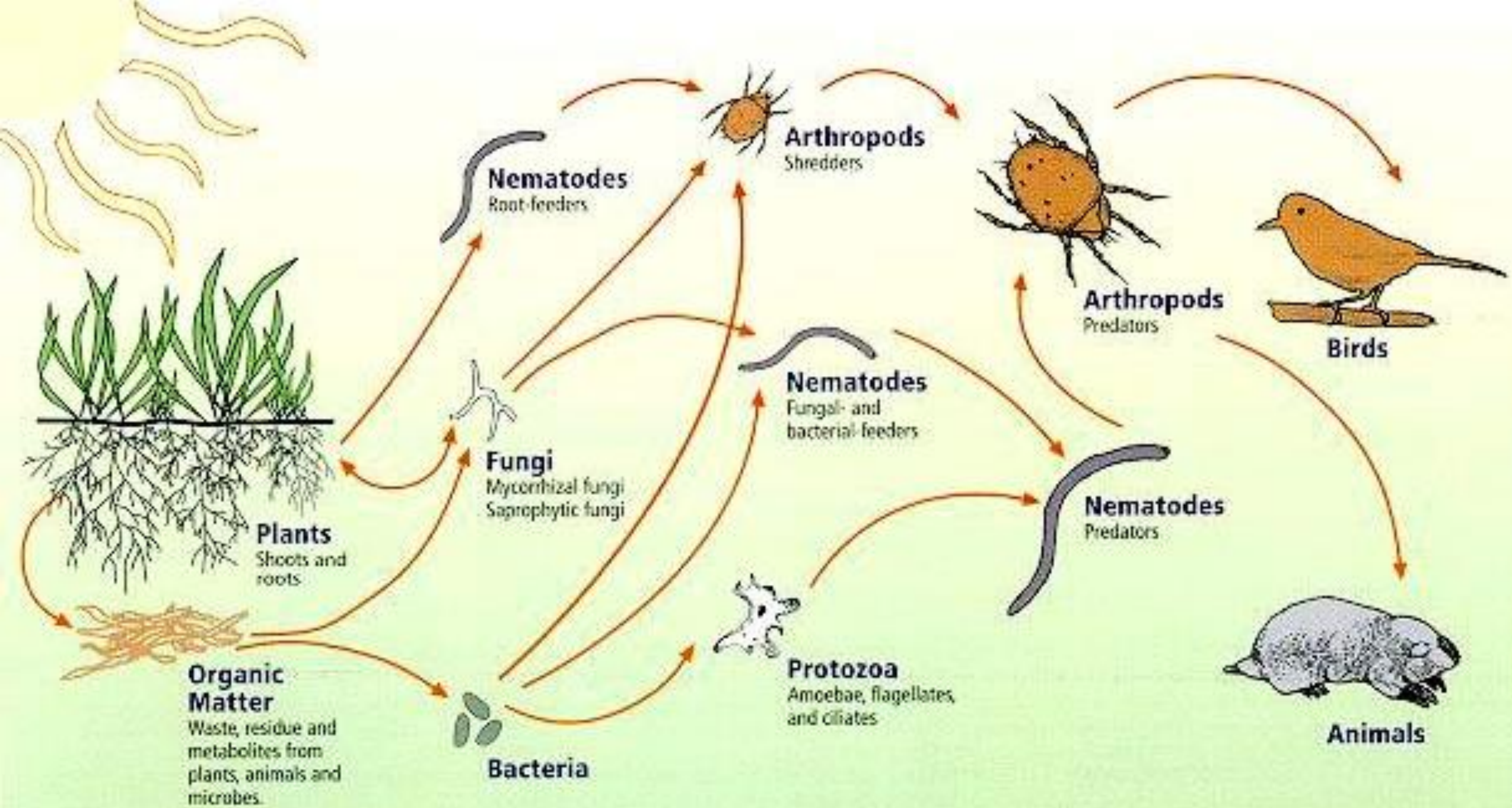
GEORGE VLAHOS

AUA



Circular economy part of agriculture

- ▶ Nothing new
- ▶ Nutrient cycle

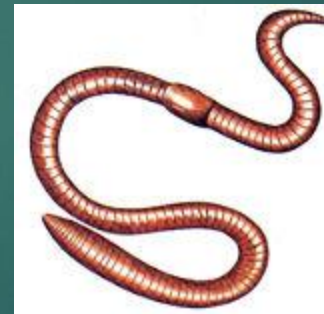


Circular economy part of agriculture

High cost of N fertilisers

Symbiotic N-fixing bacteria

1 earthworm can absorb and produce more than 1 tn per year

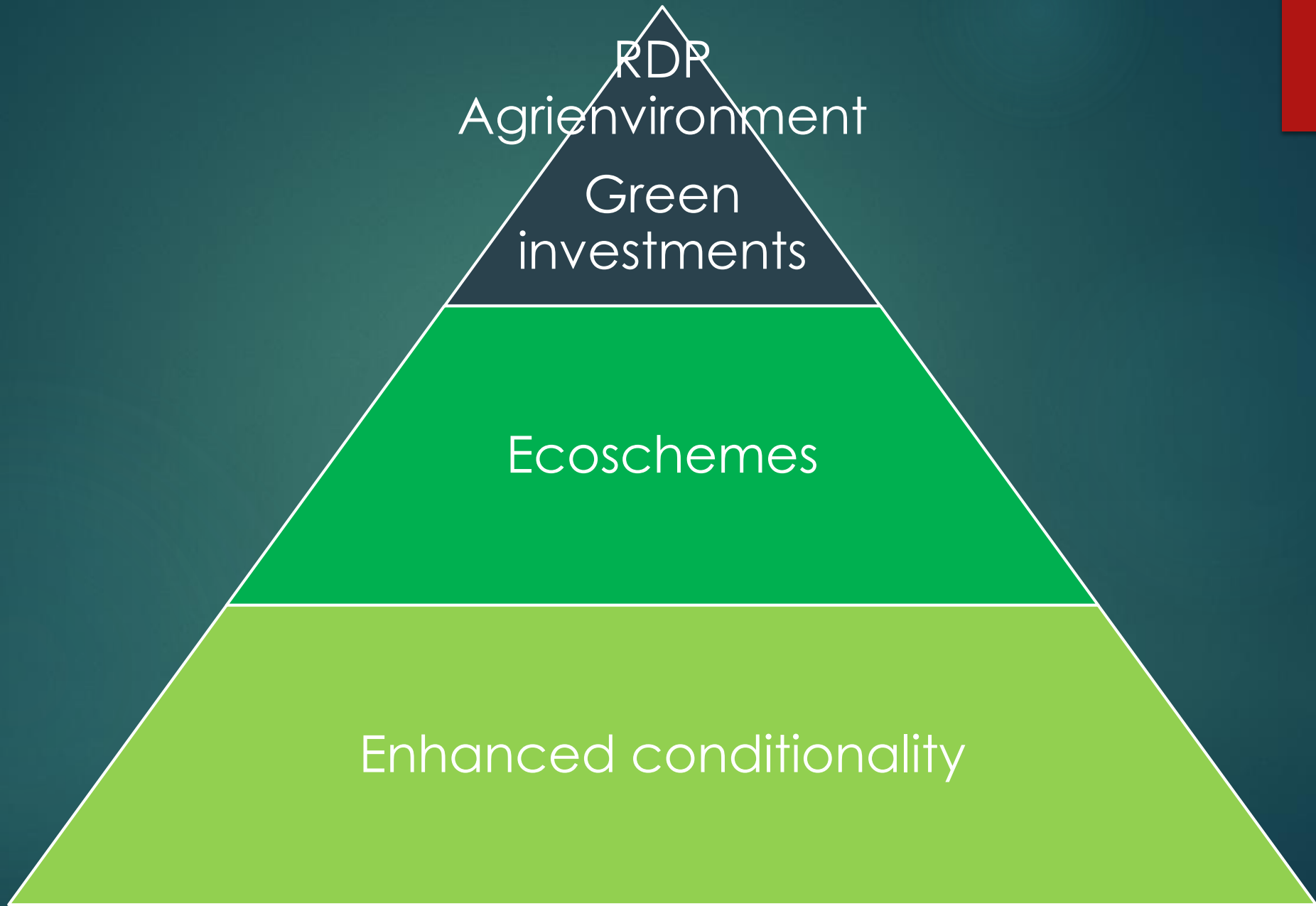


Period	Europe-the EEC/EU	Policy landscape	Relation to the environment
1960s-1980s	Reconstruction of Europe/EEC	CAP	-
1980s – mid 1990s	EEC expansion to the South	Initiation of RDP/ Programmatic rational	First hints / national prerogative
Mid 1990s – 2003	EU – expansion North-center	CAP changes/RDP established/Agrienvironment	One of the multiple functions
2004 -->	EU – expansions East-south	Programmatic Logic prevail	Sustainability Towards environment as the new legitimization rational

Policy issues

First elements in Rural Development policy

- ▶ Since 1995 but mainly through 2003 mid term review
- ▶ Use of biomass
- ▶ Biogas investments
- ▶ Reservations concerning the cultivation of biomass crops



Enhanced conditionality

GAEC 1	Maintenance of permanent grassland based on a ratio of permanent grassland in relation to agricultural area at national, regional, subregional, group-of-holdings or holding level in comparison to the reference year 2018 Maximum decrease of 5 % compared to the reference year	General safeguard against conversion to other agricultural uses to preserve carbon stock
GAEC 2	Protection of wetland and peatland	Protection of carbon-rich soils
GAEC 3	Ban on burning arable stubble, except for plant health reasons	Maintenance of soil organic matter

Support Carbon farming

- ▶ Biodiversity conservation in cultivated land/improve soil quality
 - ▶ Target annual/permanent crops
- ▶ Agroforestry
 - ▶ Target all areas

Π1-31.4 – Circular economy applications to farming

- ▶ Gather crop stubble in arable land or pruning residues
- ▶ Composting
- ▶ Compost application

	Farms	Area (Ha)	Support (Euro)
Arable Land	18,745	70,725	7,779,732
Vegetables	3,100	3,588	717,510
Permanent crops	50,632	112,521	12,602,381
Vineyards and kiwis	9,394	7,363	1,030,774
Total	81,871	194,196	22,130,397

Investments on

- ▶ Producers' groups action plans
- ▶ Individual investments



Next target: Olive mill residues

- ▶ A goal in order to reduce an important problem
- ▶ And avoid Green washing

Action needed

- ▶ Avoid mainstream logic
- ▶ Risk management approach
- ▶ And business as usual

