

BIOTEKNOLOGI

COMPOSTING

Adi Rahmat

Jurusan Pendidikan Biologi
Fakultas Pendidikan Matematika dan Ilmu Pengetahuan Alam
Universitas Pendidikan Indonesia

Composting

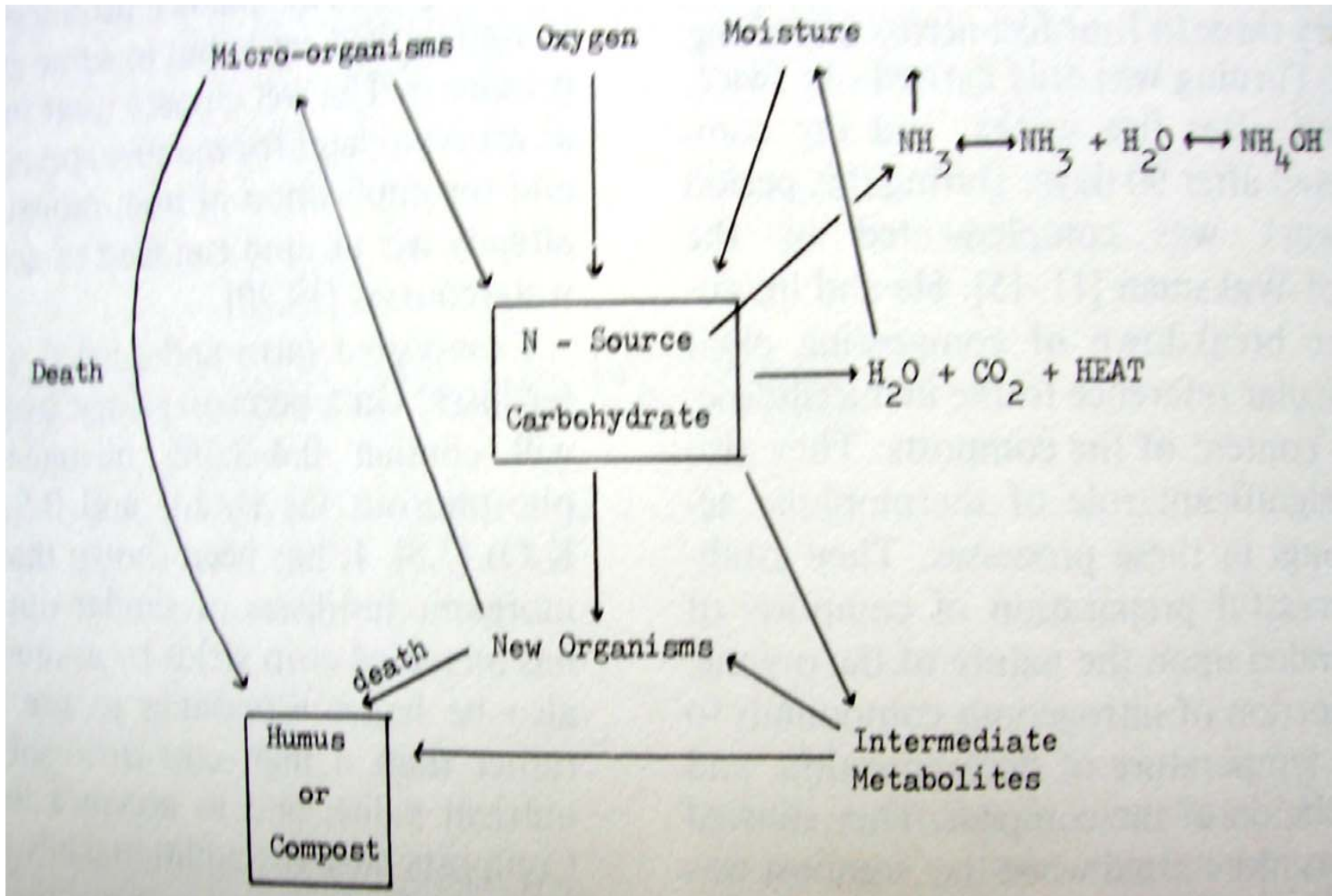
Suatu proses pembuatan campuran bahan organik

- Decomposition of heterogeneous organic matter by a mixed microbial population in a moist warm aerobic environment
- An aerobic thermophilic decomposition
- Incomplete microbial degradation of organic waste, where the microbial process may vary from aerobic to anaerobic and may lead to more or less extensive degradation

The Advantages of Composting

1. It reduces the bulk volume of the waste
2. It yields a stable product
3. It leads to the destruction of pathogenic bacteria and the egg of parasites
4. It allows organic wastes to be recycled without the destruction of their innate high energy value

The Composting Process



Faktor yang berperan penting dalam composting

- Temperatur
- pH
- Aerasi
- Kelembaban
- Ukuran Partikel
- Nitrogen (C:N ratio)
- Kandungan serat (C:N ratio)
- Microorganism