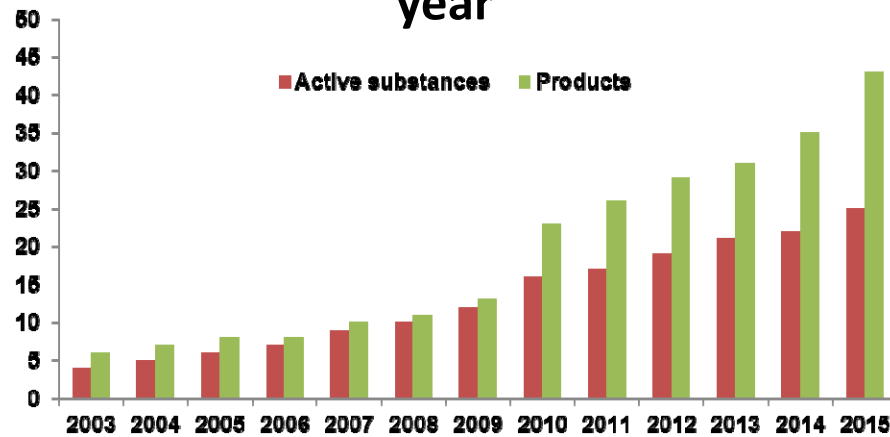
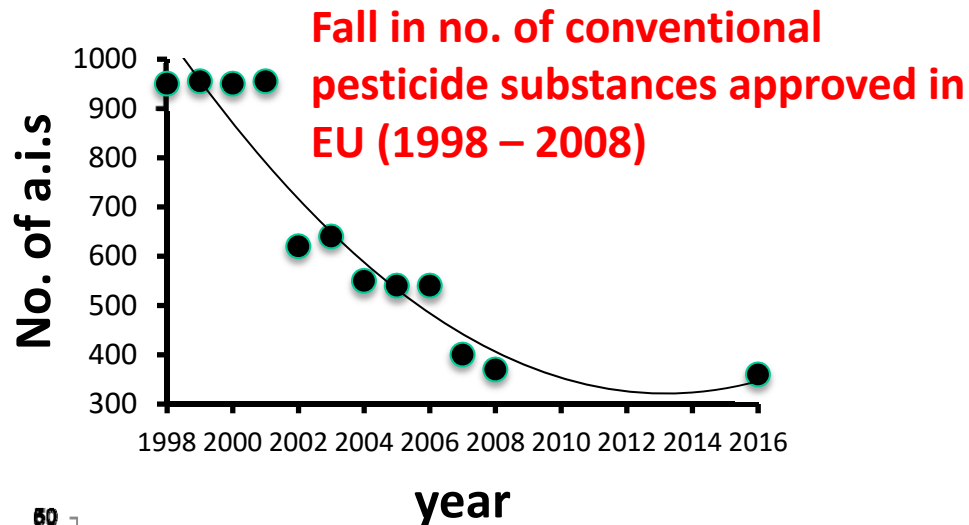
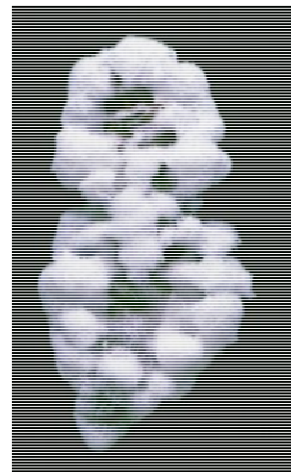


Biopesticides and IPM



Cumulative No. approved biopesticides in UK (2003-2015) (CRD)

- Microbes; plant extracts; semiochemicals.
- Curative & preventative treatments; protected crops.
- > 2000 products worldwide.
- Annual growth 15% (3% for conventional pesticides).



Biopesticides: the good stuff

- Low risk, no residue, low re-entry interval.
- Low development costs.
- Reduce selection pressures on pesticides.
- Attractive biological features: root colonisation, growth stimulation.



Biopesticides: challenges

- Some have proven potential in IPM – but performance of others is weak or sub-optimal.
 - **Expensive, variable efficacy, less robust.**
 - **Reasons for poor performance not always known – but main suspects are ...**
 - **Application; environmental factors; understanding speed of kill; effective dose; compatibility.**
- Growers are wary of them.



AMBER

Application and Management of Biopesticides for Efficacy and Reliability

- Develop management practices to improve biopesticide performance in IPM.
- Warwick, ADAS, Silsoe, consultants, partner growers, biopesticide companies.

