



### Premier Botanical Solutions for Sustainable Crop Protection

Insecticides, Miticides, and Repellents



Fungicides, Protectants, and Bactericides



Molluscicides





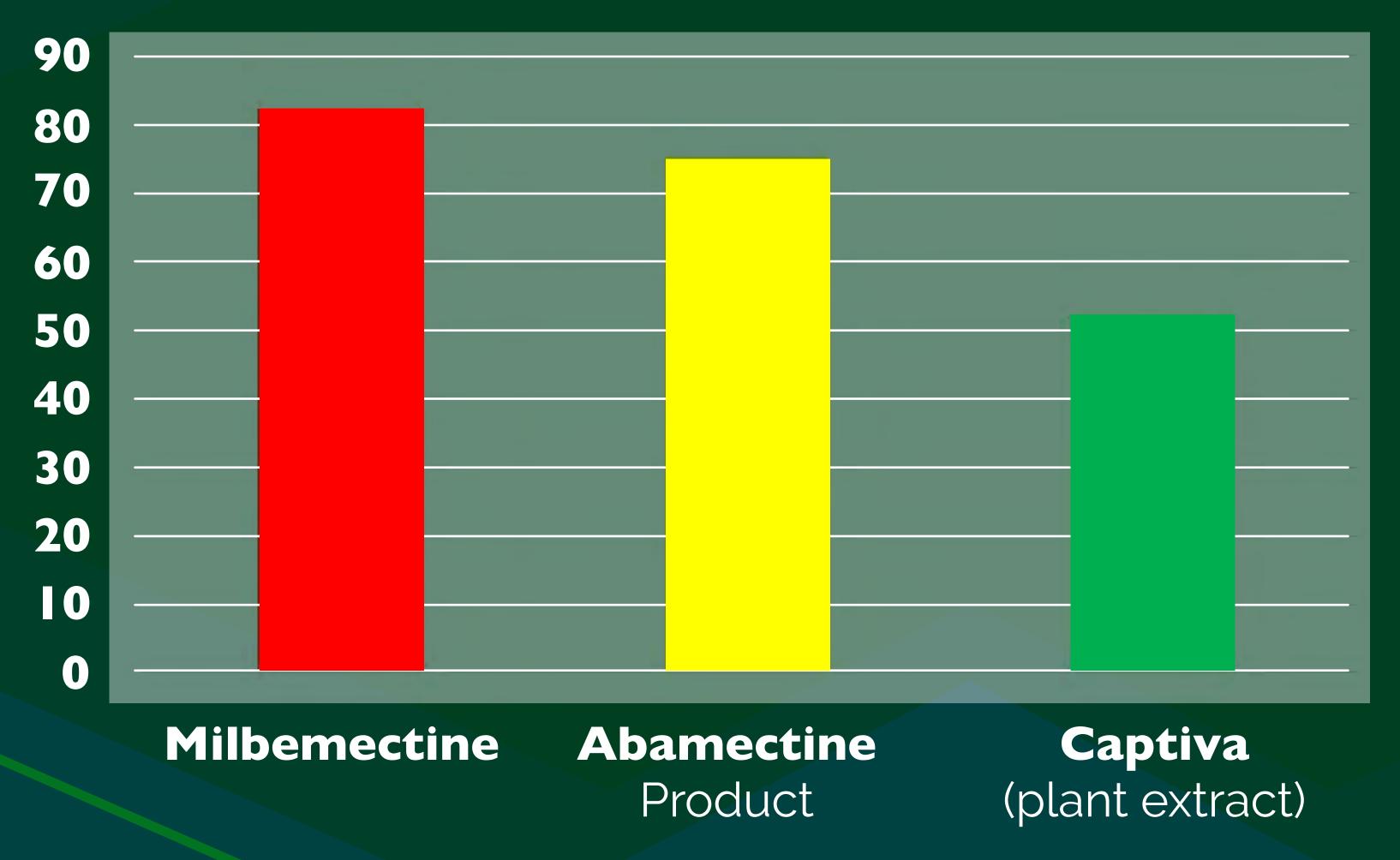








## The Paradigm: Chemical pesticides are the most effective solution for pest control



% Mites (Tetranychus urticae)
Mortality by contact (3 daa)



# Comprehensive Benefits of Plant Extracts in Crop Protection

- · A lower dependence on Synthetic Chemical Control to achieve a competitive Crop Protection.
- •A significant reduction of risk among pest species, to develop Resistance mechanisms, as a result of a lower Selection Pressure.
- ·An important reduction of Pest Management Costs, resulting from a lower infestation pressure, lower accumulated residues and damage, and better crop protection and yields.



### Comprehensive Benefits of Plant Extracts in Crop Protection

- A significant increase in the Conservation and Enhancement of CROP BIODIVERSITY including non-target organisms which in turn, make a tremendous contribution to the overall Crop Protection and production.
- Higher Crop Protection standards can be attained based on the application of Plant Extracts resulting from the positive interactions between botanical products and beneficial macro and microorganisms in green house and field crops.
- Lower toxicological and eco-toxicological risks, for field workers, consumers, living organisms and the environment.



### Comprehensive Benefits of Plant Extracts in Crop Protection

- A more even, stable and permanent establishment of Beneficial Macro-organisms associated to Green House and Field Crops where the application of Plant Extracts and Botanical Pesticides is broadly adopted and preferred by growers.
- A friendlier agro-ecosystem to promote the establishment and growth of beneficial microorganisms, associated to both: the crop plant itself, as well as to the soil environment where the crop plants occur.

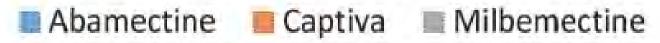


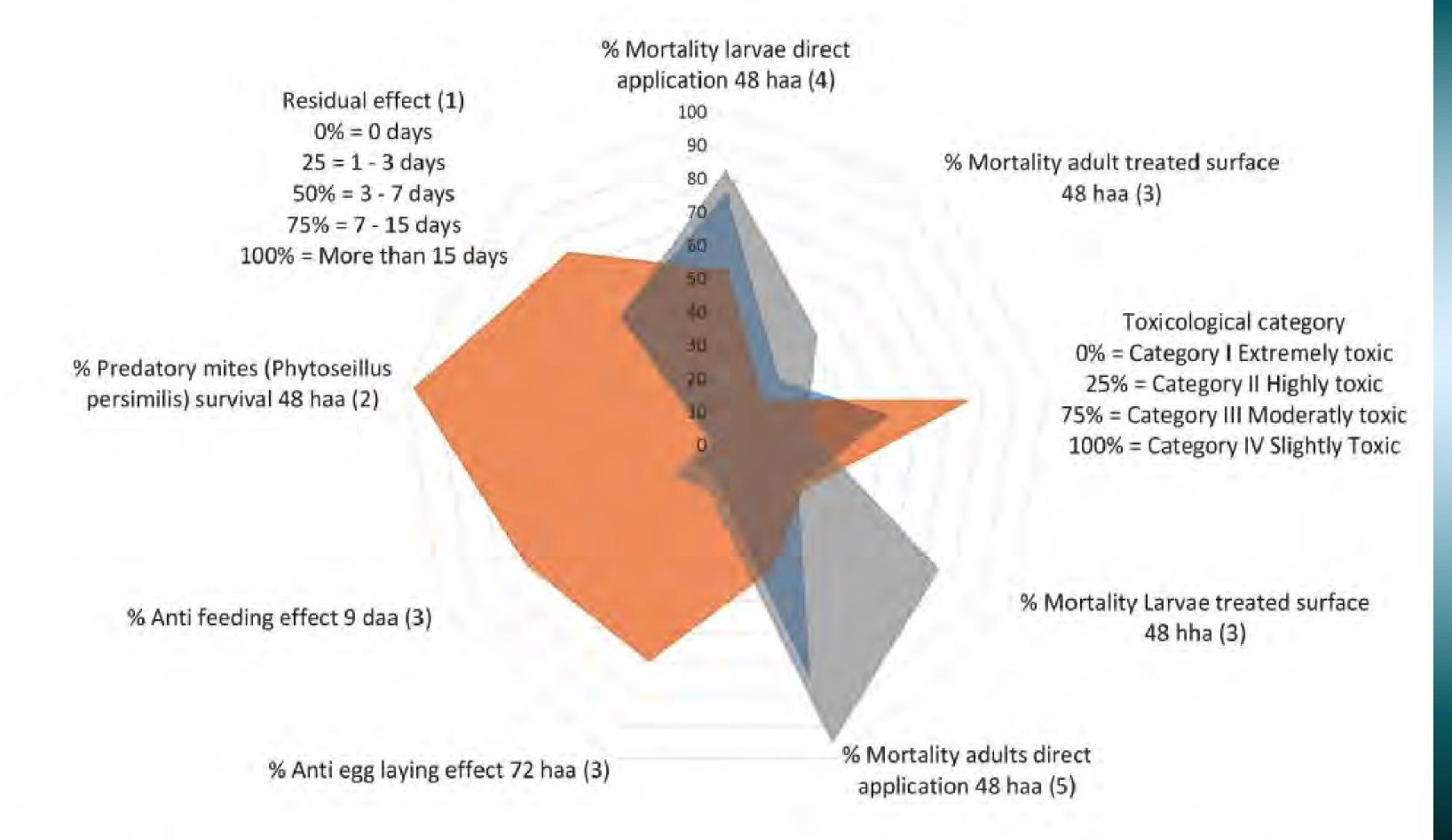
# Botanical Pesticides have complex modes and mechanisms of action, which combine a diversity of Lethal and Sub-Lethal Effects, such as:

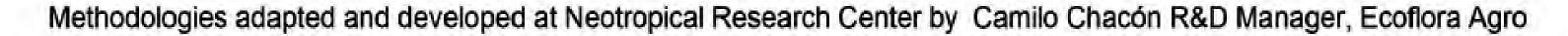
- Anti-feeding
- Anti-egg-laying effect
- Anti-mating (pheromone interference effect)
- Repellent Effect
- Deterrent Effect

These **effects combined**, can be more than enough to ensure a high standard of **Crop Protection**, even if the lethal effect is medium, low, or negligible

#### TECHNICAL PROFILE SPIDER WEB ANALISYS



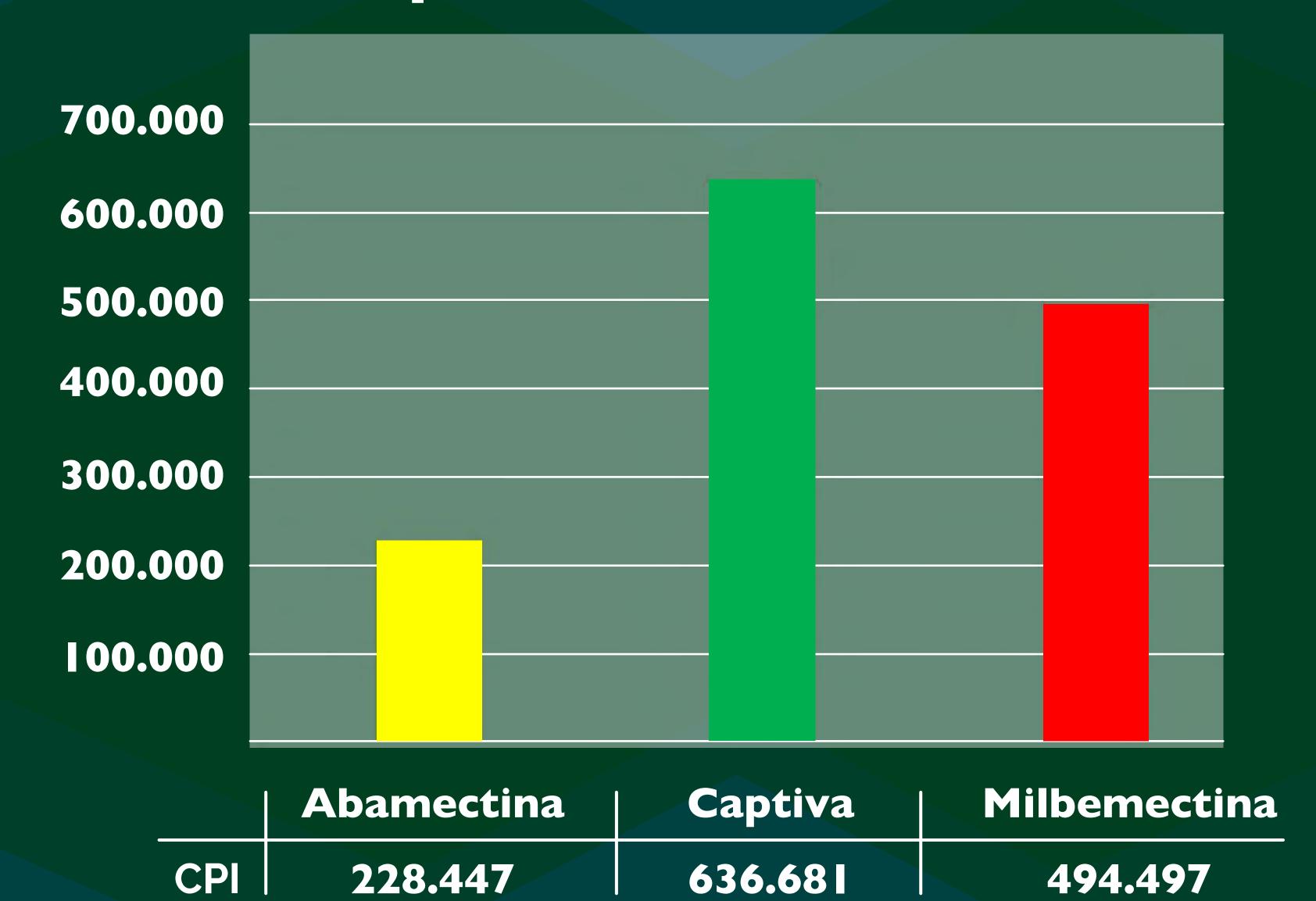






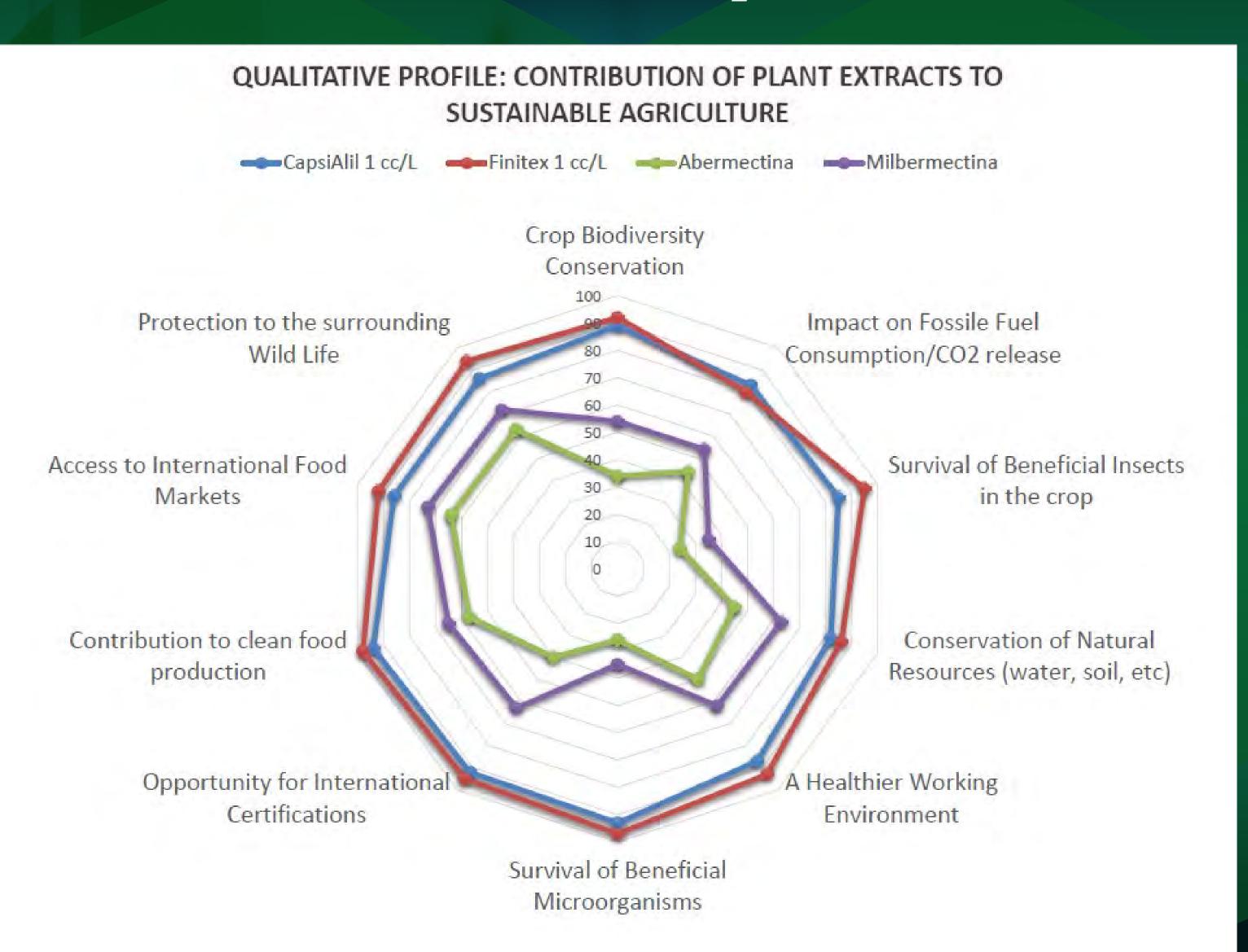
#### Crop Protection Index (CPI)







#### Sustainability Index





• The use of **Ecoflora's Plant Extracts** contributes to the **conservation and management of Biodiversity** (including pollinators, biocontrol and benefical microorganisms) as well as to agro-ecosystems sustainability.

• Through their lethal and sub-lethal effects these are paradigm shifting tools for effective and sustainable IPM and ICM.



#### Thanks



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