

# NO BUG

## Novel release system and bio-based utilities for mosquito repellent textiles and garments



Protective textiles against mosquitoes are an important market, not only for applications in tropical areas where vector borne diseases are a threat to public health but also in Europe where the presence of mosquitoes can be a nuisance.

Malaria and dengue are amongst the most killing diseases in the world: 500 million people are infected annually with malaria and more than a million people die of the disease, of which 90% are children, and an estimated 100 million cases of dengue fever and 250000 cases of dengue hemorrhagic fever occur annually.

In several applications of PPE mosquito repellency is an important issue. Three major problems arise: conventional repellents are harmful, resistance to repellents increases, and the lifetime of release systems is too short.

The project focuses on PPE for professional travellers. Long term travellers, particularly occupational travellers, underuse personal protective measures. Underuse of PPE is caused by e.g. concern about the safety of permethrin impregnated materials and DEET, the smell of DEET, sticky feeling of the DEET lotion, and concern about the effectiveness of DEET. Solving these problems are the main goals.

Novel biorepellents and biomimetic concepts will be evaluated. Innovative release systems and release patterns will be developed, such as multilayer coatings and in-situ synthesis and release of the active compounds. Targeted prototypes are textiles for health workers and bed nets. Testing, exploitation and dissemination is part of the project.

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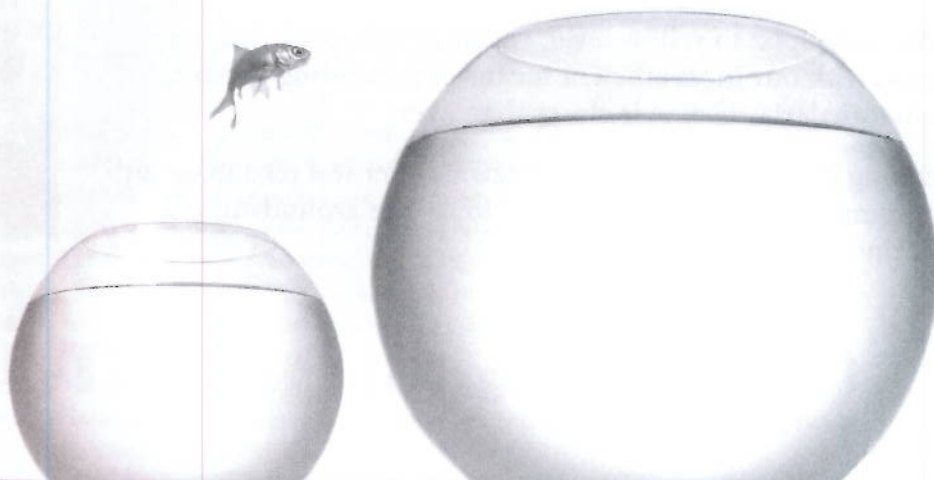
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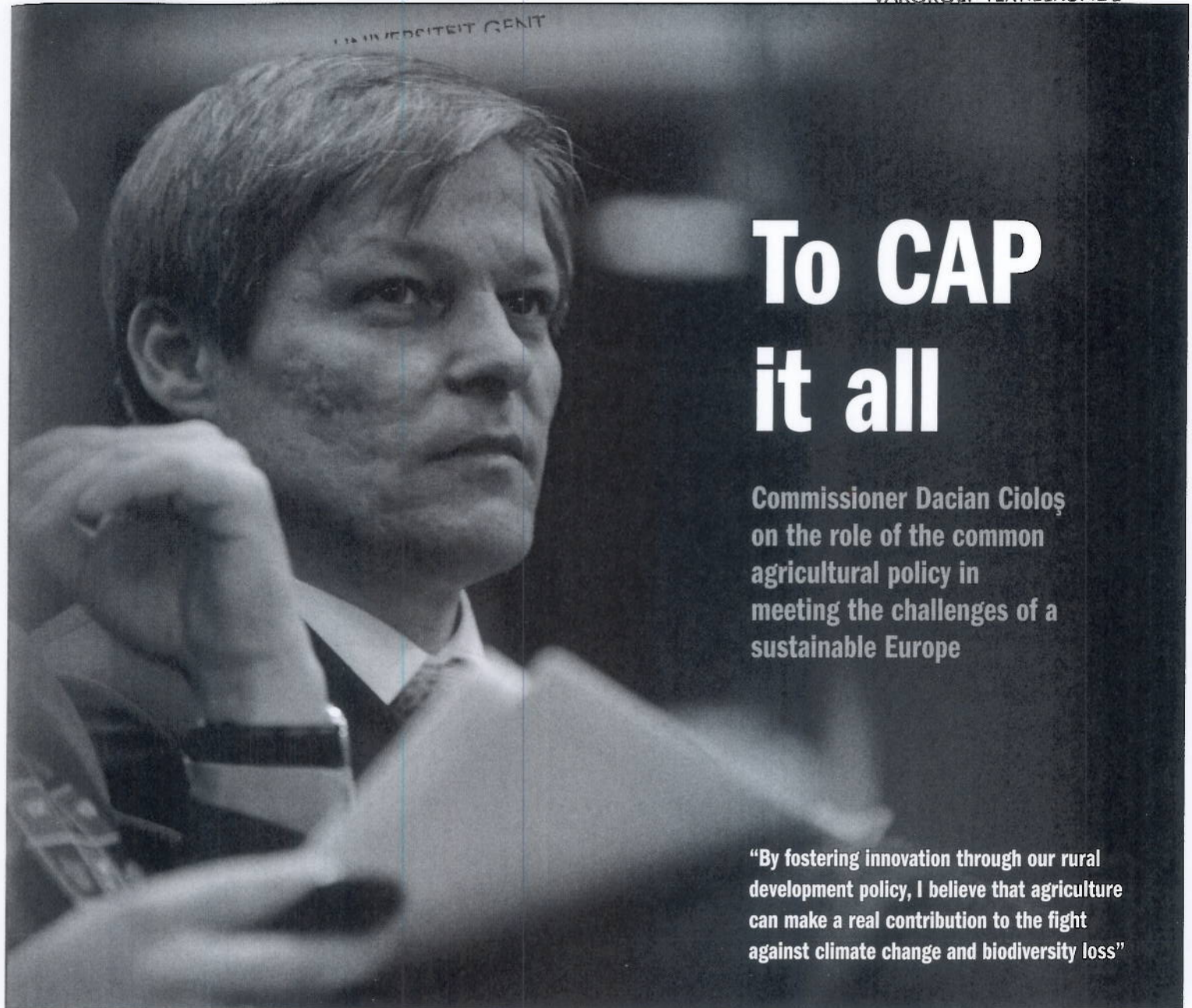
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