APSA

Role of plant variety protection in sustainable agriculture and food security in the context of climate change

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Francine Sayoc

APSA Executive Director

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APSA's mission:
To support
sustainable
agriculture through

the production and trade of quality seeds for the world



544

74%

46

total number of APSA members in 2023

of members are seed enterprises; most have R&D

countries
represented:
26 are in APAC,
20 from outside
the region







Stem rust had emerged in the UK in 2013, for the first time in 60 years. Climate changes over the past 25 years are likely to have encouraged conditions for infection.

(Source: CIMMYT)

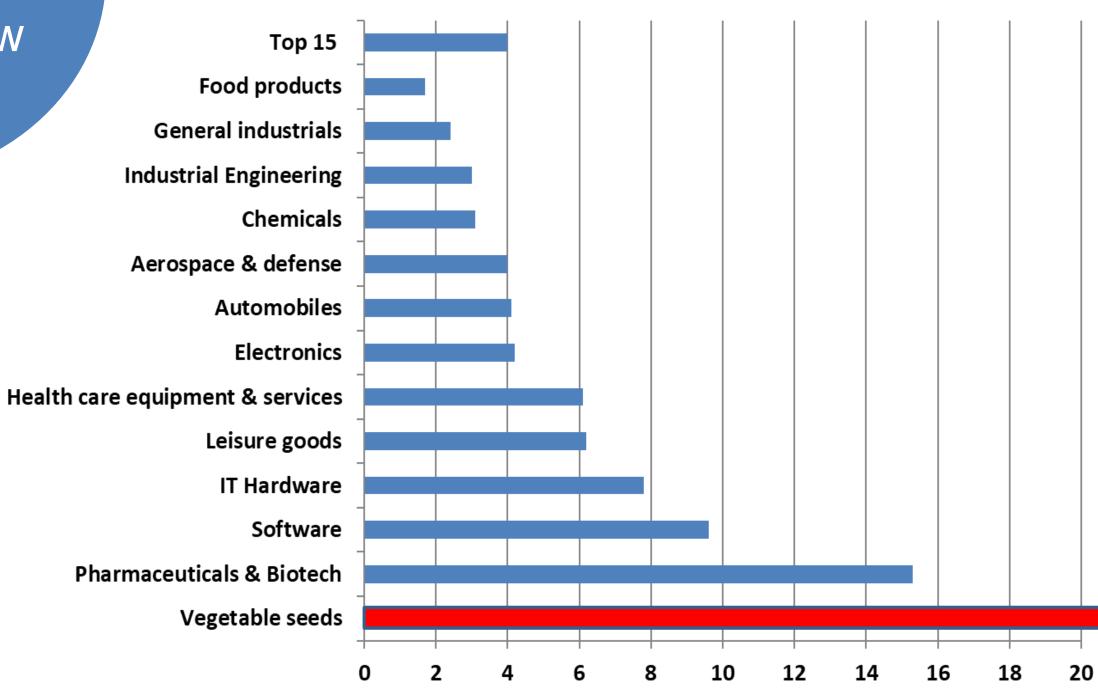








R&D Intensity (R&D investments/Net Sales)







Intellectual Property commercialises innovation, benefits society

Innovation: research which requires more technologies and more expense; developing and using the toolbox

Generation of incomes and investment returns, leading to more investments An effective plant variety protection (PVP) framework helps sustain the cycle of innovation.



Climate-smart plant breeding objectives



Tolerance to abiotic stresses (drought, flooding, heat, frost)

Resistance to biotic stresses (disease, virus, fungus, weeds, insects)

More efficient use of water and nutrients in the soil

Carbon sequestration

High yield and fruit quality under stress

Key considerations for policymakers



Climate change adaptation in agriculture will be driven by innovation. National strategies must include the development of new plant varieties that can adapt to increasing environmental pressures.



Plant variety protection encourages investment into R&D and successful market entry by allowing breeders to recoup their financial and intellectual investment.



For farmers, this means greater choice of improved varieties and access to new solutions to climate challenges.