IAEA/FAO/OIE Workshop on PPR in the SADC Region (Dar es Salaam): 10-12/06/2013

GLOBAL DISTRIBUTION AND EVOLUTION OF PPR: UNDERSTANDING THE LINEAGE EVOLUTION THE GAPS, THE CHALLENGES AND THE RESEARCH PRIORITIES

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EVOLUTION OF PPR DISTRIBUTION IN THE WORLD 1942-1972 1980-1982 2009-2012 2007 2008 Joint FAU/IAEA Programme





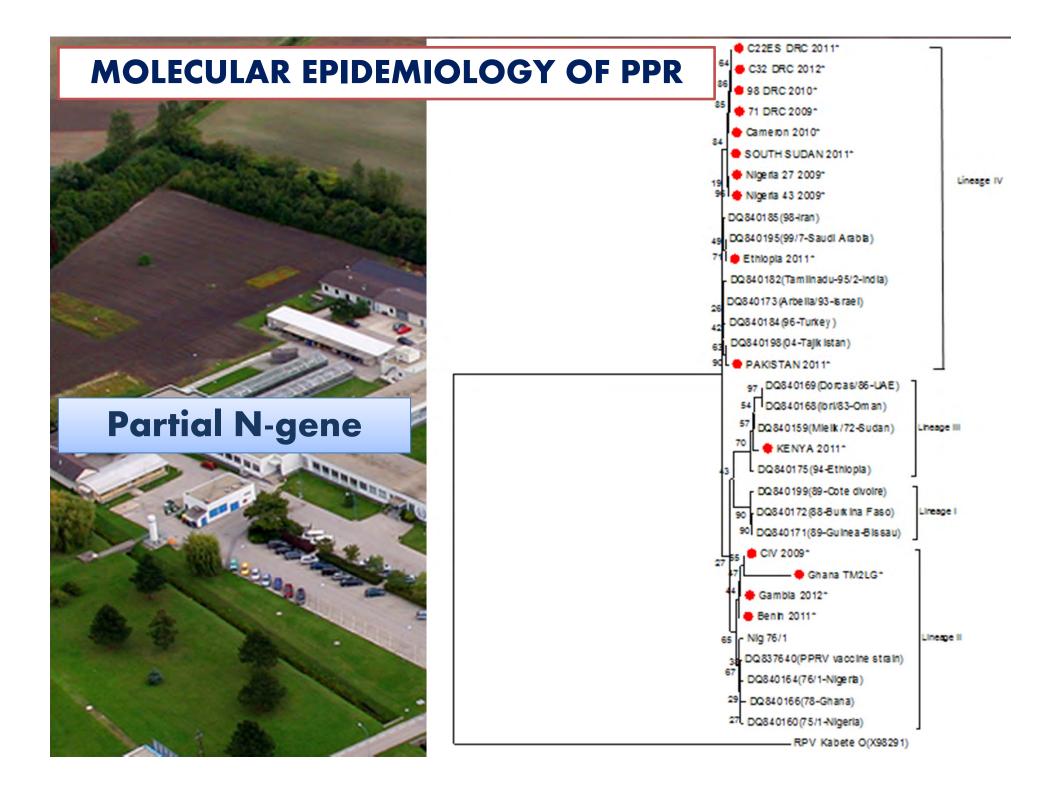
DRAMATIC EXPANSION OF P

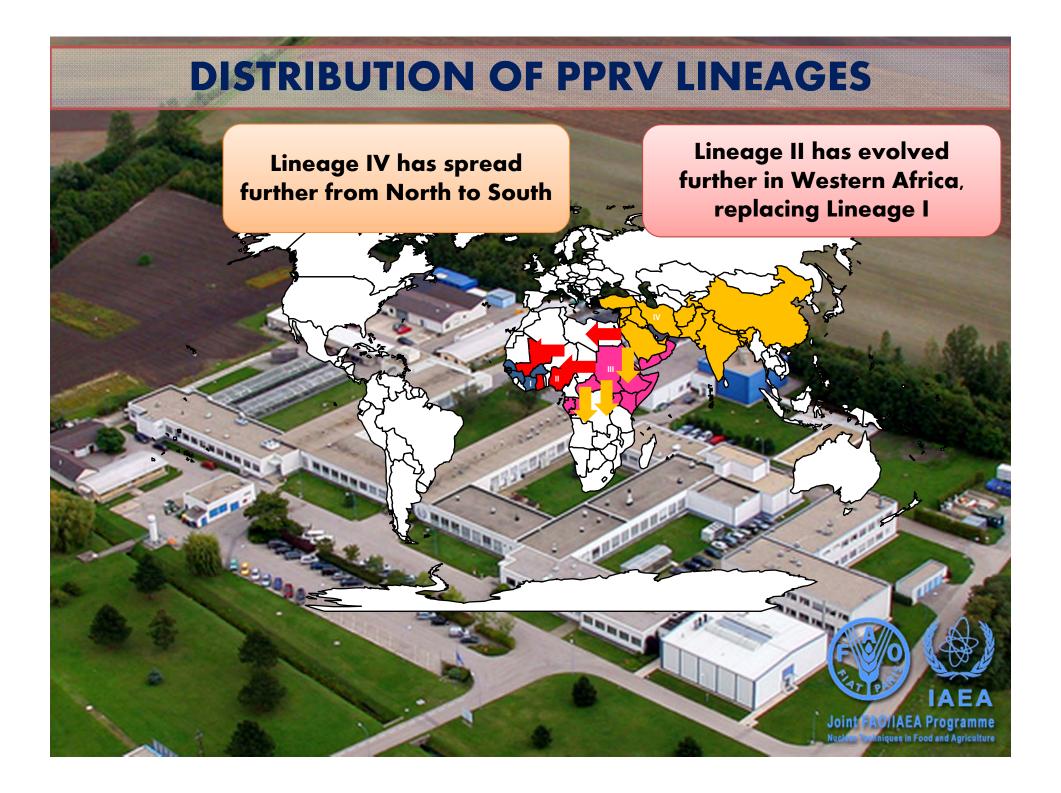
BECAUSE OF INCREASE OF ANIMAL TRADE

Certainly BECAUSE of the AVALIBILITY of New Diagnostic Tests Highly Specific

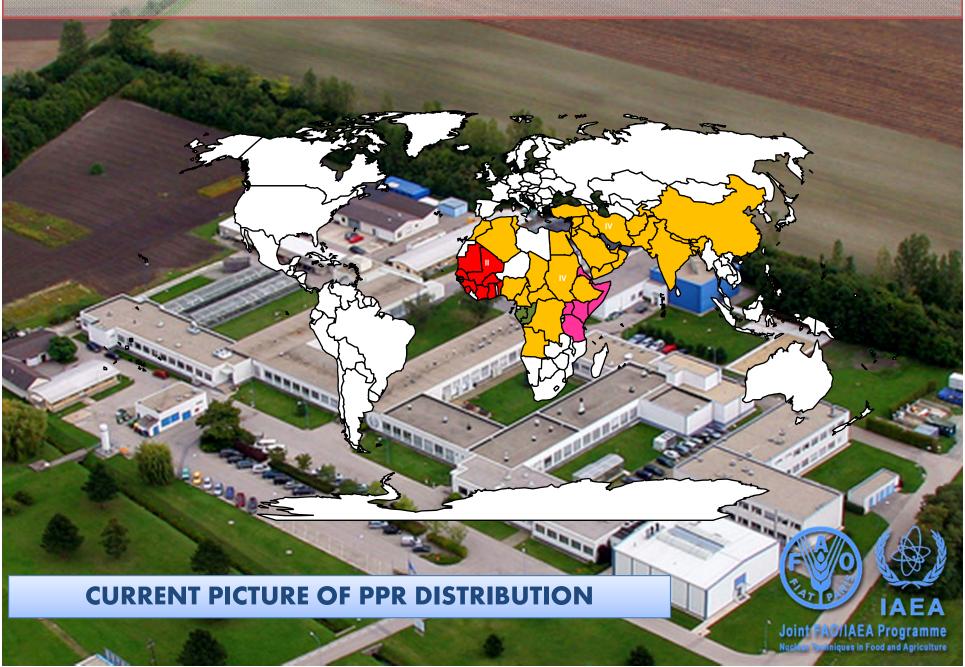
More than one billion of sheep and goats at risk and threatening food security, livelihoods of small holders



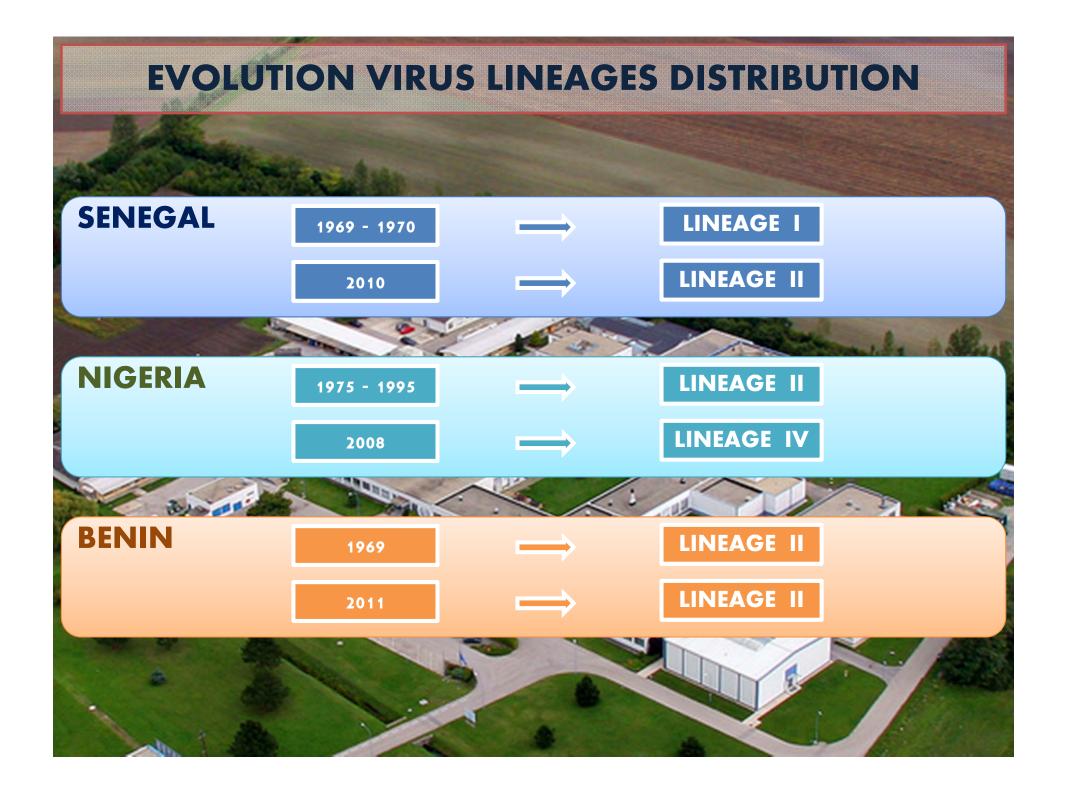




DISTRIBUTION OF PPRV LINEAGES







GAPS AND CHALLENGES: RESEARCH PRIORITIES

DIAGNOSIS

AVAILABLE:

Specific and Highly Sensitive tests for Use in lab (RT-PCR, QRT-PCR, Ag Immunocapture ELISA, C-ELISA)

NEED:

VALIDATED PENSIDE TEST

VACCINE

AVAILABLE:

Efficient Attenuated Live Vaccine (at least 3 years protection)

NEED

THERMOSTABLE EFFICIENT LIVE VACCINE

EPIDEMIOLOGY

KNOWN:

Sheep and Goats are Natural Hosts

UNKNOWN:

A LOT !!!

GAPS AND CHALLENGES: EPIDEMIOLOGY





Factors involved in the Pathogenicity in Sheep and Goats

✓ THE VIRUS

FOR RPV: Classification possible in to: Highly virulent, virulent and less virulent

FOR PPRV: Classification not yet clear

✓ MORBIDITY/MORTALITY Rates:

0 to 100%

✓ Animal Species:

Goats re sensitive? Not always the case

√Virus Excretion:

Duration unknown

✓ Survival of Virus in environment:

Duration unknown



PPR CONTROL: DREAM OR REALITY?

DESPITE MANY GAPS IN THE EPIDEMIOLOGY

WITH TOOLS CURRENTLY AVAILABLE:

GOOD DIAGNOSTIC TESTS

GOOD VACCINE

PPR CONROL SHOULD START NOW IN INFECTED COUNTRIES
FOR PROGRESSIVE ERACDICATION

And FOR PREVENTION ITS EXTENSION



