

Philippine Industries: Warming Up to the Atom

Alumanda M. Dela Rosa, Ph.D.



Director

Philippine Nuclear Research Institute

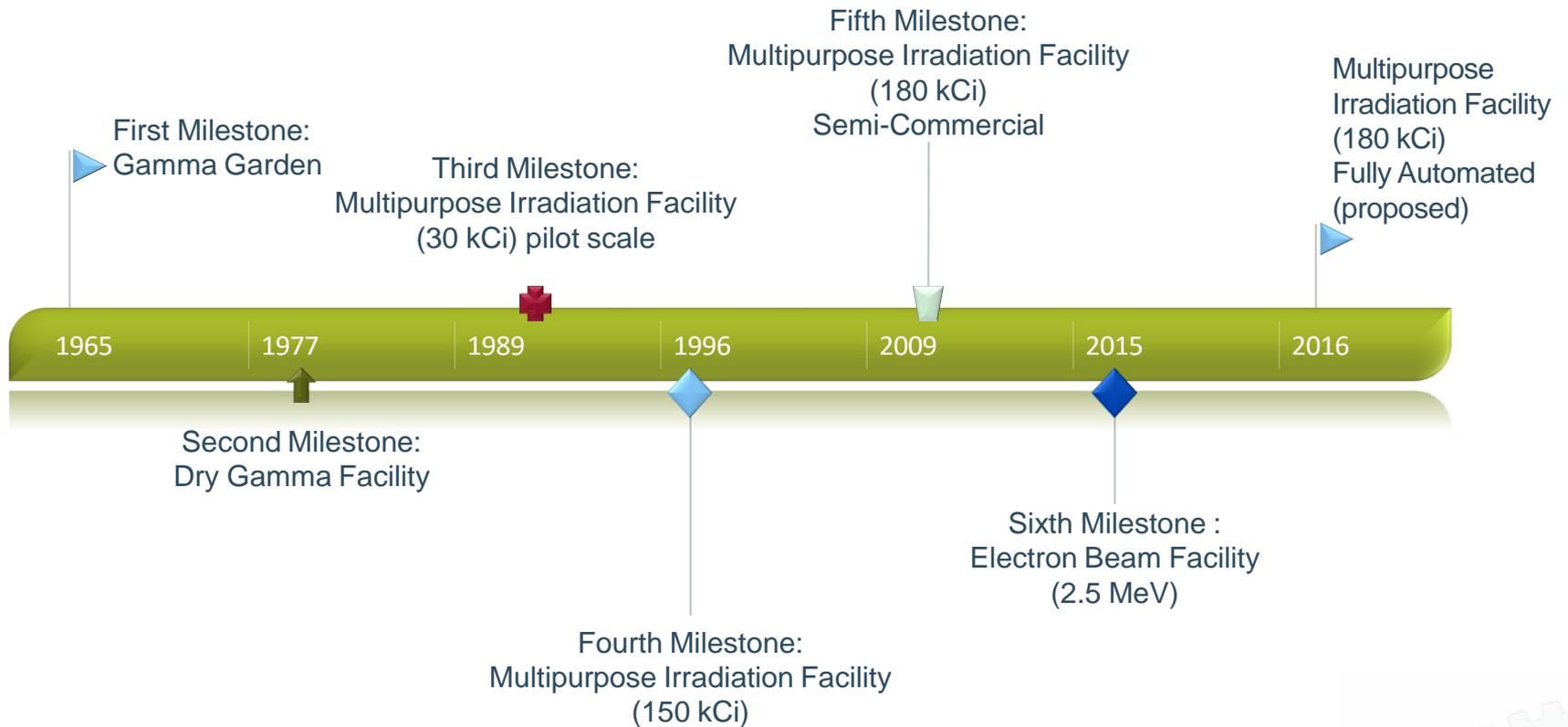
International Atomic Energy Agency Scientific Forum

ATOMS IN INDUSTRY

Radiation Technology for Development

15–16 September 2015, Vienna, Austria

Milestones in Radiation Facilities Development



PNRI

Multipurpose Irradiation Facility (MIF)

- Products irradiated in the MIF (commercial)
 - Spices, herbal products, dehydrated vegetables, flavors
 - Cosmetic raw materials and accessories (talc, brushes, applicators)
 - Orthopedic implants
 - Surgical gloves
 - Empty gelatin capsules
 - Empty Al tubes and eye dropper bottles
 - Frozen fruits



PNRI Electron Beam Irradiation Facility





Strips of abaca
and
polypropylene
nonwoven
fabric for
irradiation

Irradiation
position of
abaca and
polypropylene
nonwoven
fabric



Honey alginate wound dressing

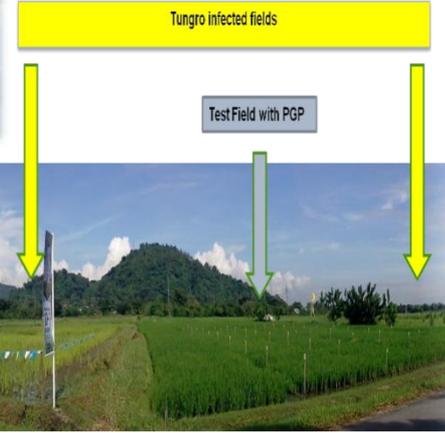




Irradiated mangoes



Wound dressing



Plant growth promoter



▲ Fruits (mango and melon)



▲ Brown rice



Snack bar ▼



Radiation-grafted abaca fiber



Mixed vegetables ▶



◀ Chicken 'adobo'

Food for immunocompromised patients and calamity victims





Gamma column scanning





Radiographic testing of pipeline using Iridium-192 gamma source

Radiography (X-Ray) conducted in an Aircraft



Eddy Current Testing



Over the years,
there has been increasing awareness
by Philippine industries
on the benefits they can derive
from the use of radiation technology.

The PNRI looks forward
for greater development and
utilization of this technology
by our local industries.

THANK YOU!

