



Communicate.
Educate.
Advocate.

Ebeam- Xray
HEPRO Cape
Cherin Balt

Why Do We Need an E-beam/X-ray Machine?

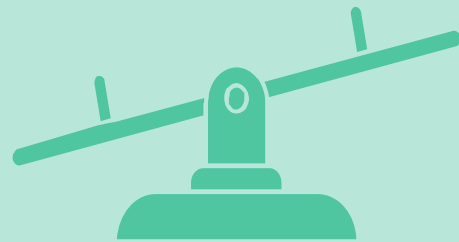
EXPERIENCE

40 years of gamma radiation experience



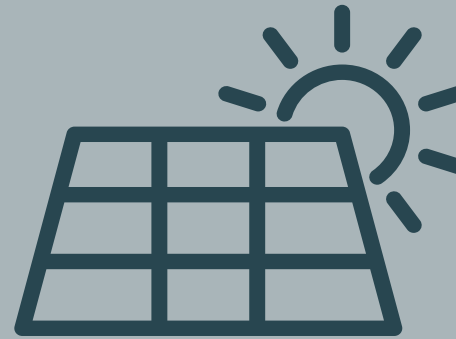
Co-60 SUPPLY

Shift prompted by Cobalt-60 shortage



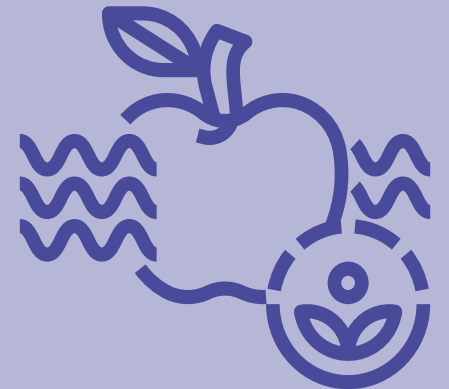
POWER

Need for stable, alternate energy sources

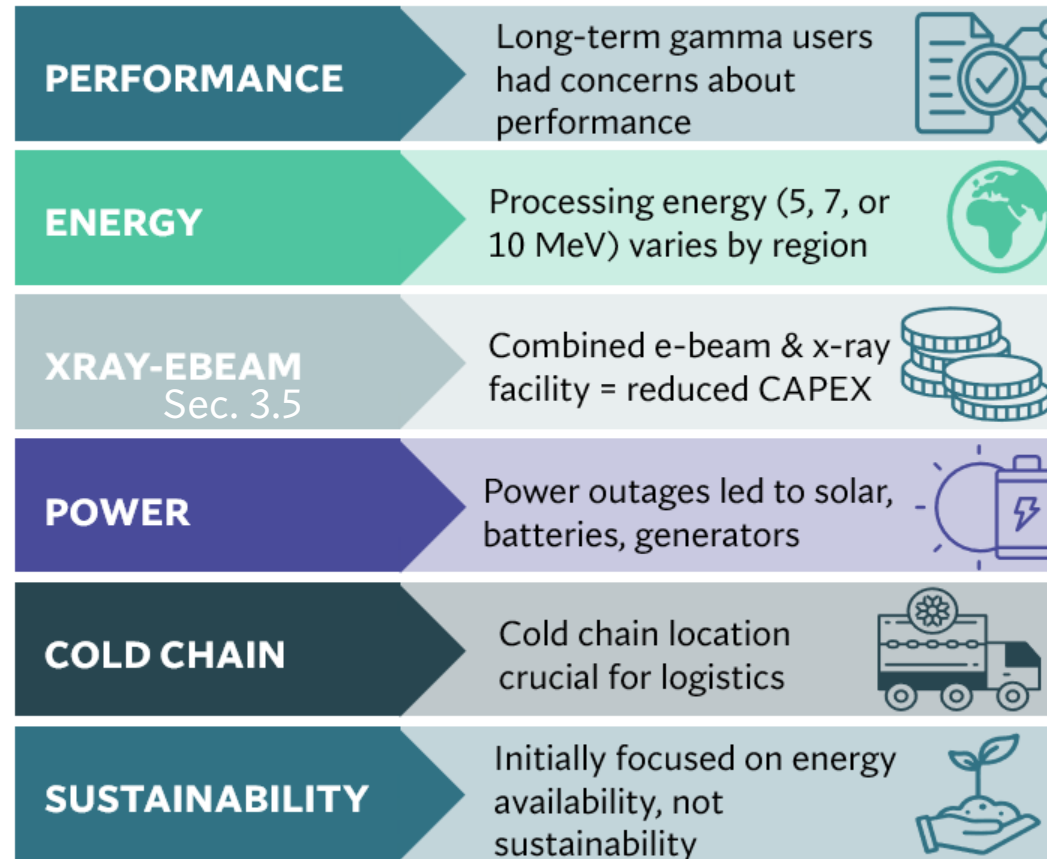


CUSTOMER REQUIREMENT

Phytosanitary



Technical Details: Customer Requirements & Logistics



Flow chart in Figure 3.1.1

Legislation: Regulatory Framework & Safety



South Africa
(2010):
Manufacturers
responsible for
food safety



Europe
permits but
often rejects
irradiated
food



Need for
international
equivalence
frameworks

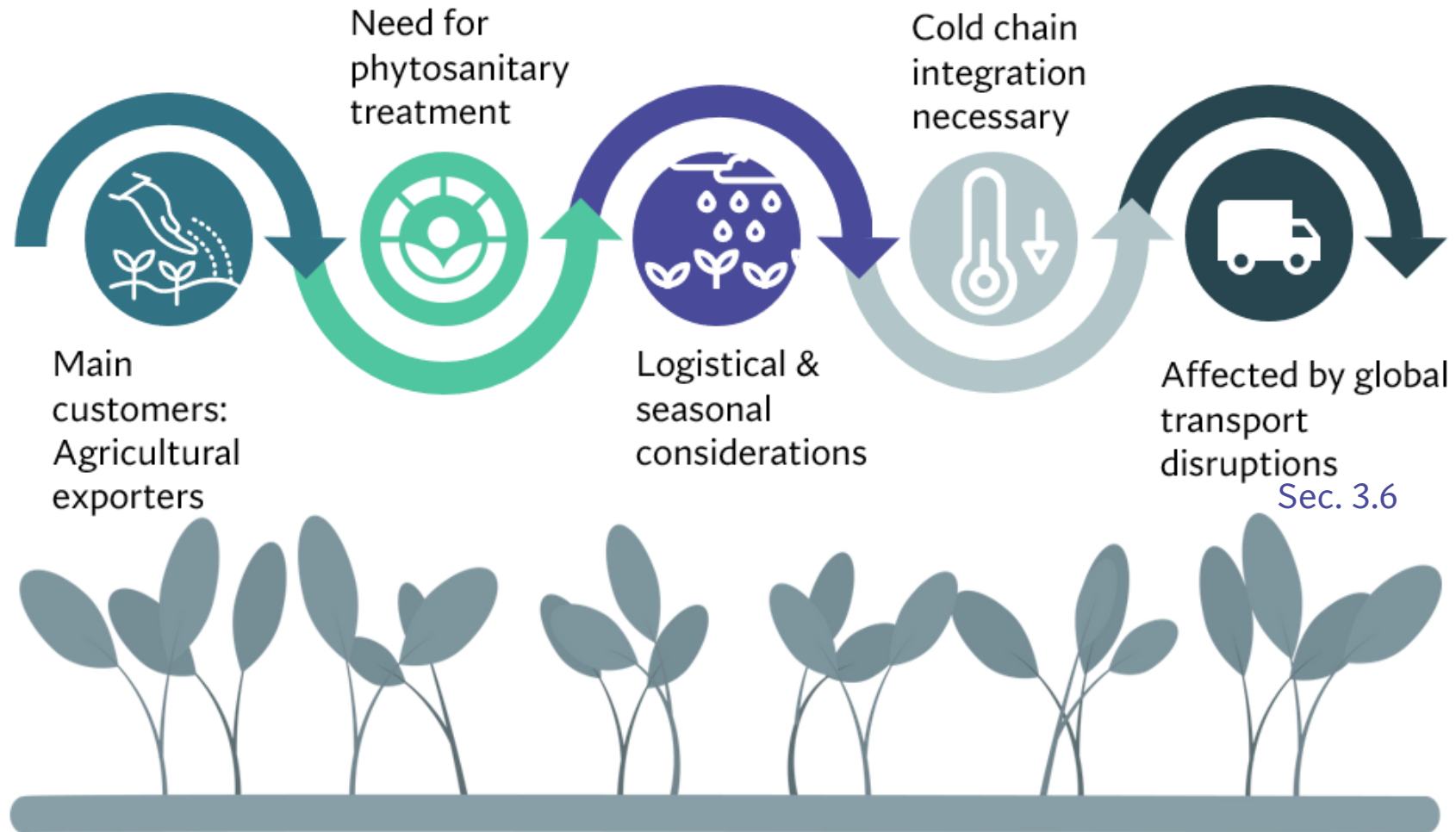


Required
impact
assessments
(environmental, visual).



Detailed
planning
essential for
regulatory
approval

The Market: Understanding the Customers



International Codes and Timelines

REGULATIONS



Different countries have different dose and energy regulations



TIMELINE



Includes:

- Equipment delivery
- Facility design & EIA
- Construction & commissioning



DELAYS



Potential delays: power, red tape, export approvals



MANAGEMENT



Management: private vs. government control debated



Key Considerations for Success



Stable power supply is critical

Sec. 5.2.3



Investor confidence tied to feasibility & profitability



Grateful to tech partners for their support



Focused on tech viability, market needs, and legal compliance



Global Voice
for the
Radiation
Processing
Industry

**Communicate.
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Advocate.**

Thank you

Presented by:
Cherin Balt. HEPRO Cape

07 May 2025