

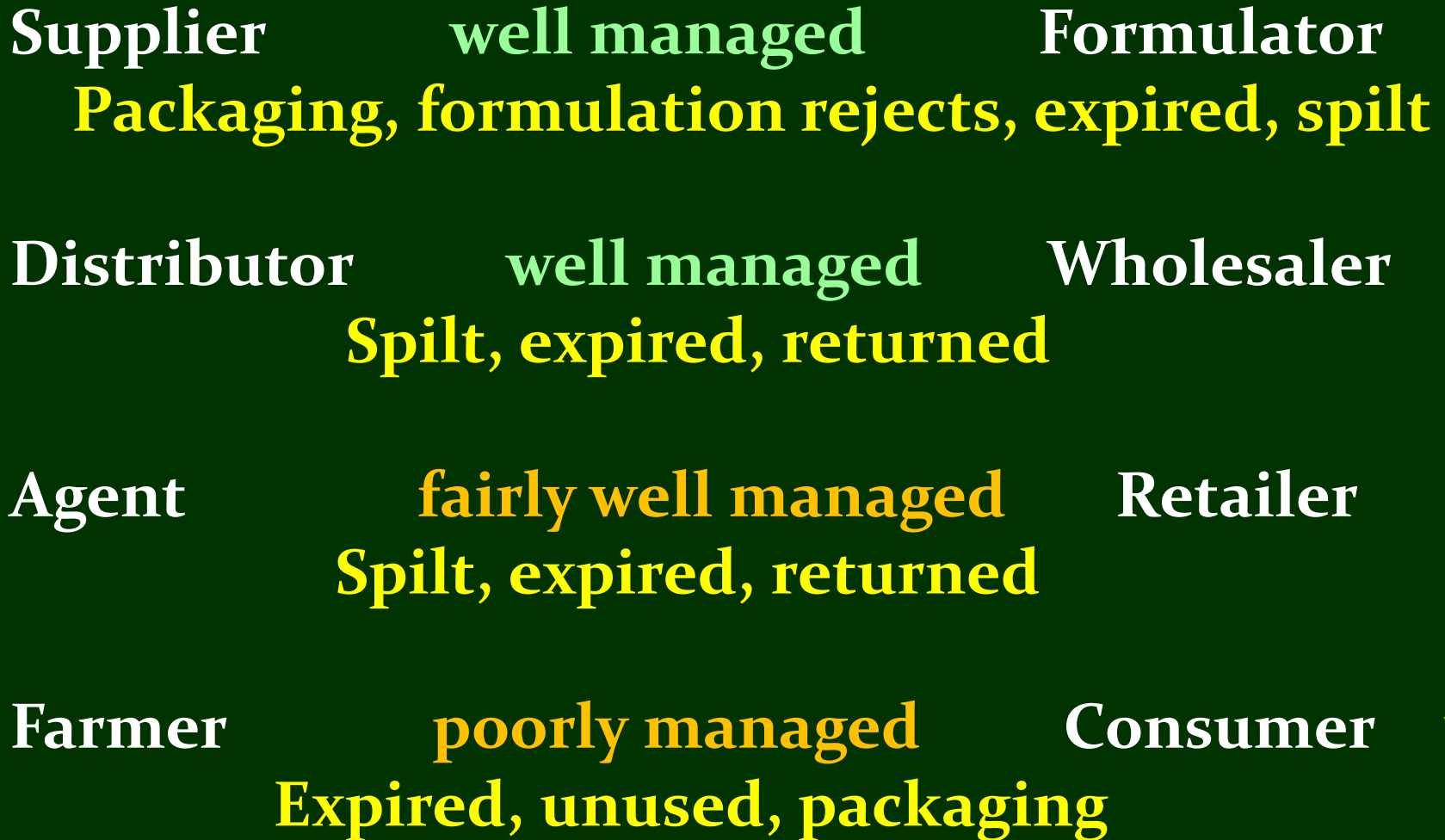
TAKING UP THE CHALLENGES OF WASTE MANAGEMENT

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Pesticide pathway



Pesticide waste generated

Large intermediate bulk containers (IBCs)

low risk (well managed)

Polyethylene containers (10 ml to 25 liter)

high risk (contamination with unknown)

Polyethylene bags

medium risk (low hazard products)

Paper bags (some neat, some foil lined)

medium risk (low hazard products)

Pesticides – expired, unwanted, left over, formulation rejects, spilt material, confiscated

very high risk (high concentration and high volume)

Current management practices

Empty containers – polyethylene plastic

Triple rinse, recycle *via* CLSA approved plastic recyclers

Empty containers – plastic bags, paper bags and foil lined paper bags

No mechanism yet, but high probability of clean materials accommodated at landfills

Obsolete pesticides

No industry mechanism yet, responsibility lies with owner to dispose of responsibly

Challenges and obstacles with containers

Recyclers: too few recyclers/collectors on board CLSAs approved recyclers' list; many rogue operators collecting and selling containers; CLSA has to be constantly vigilant around recyclers

Farmers: uninformed, unwilling to triple rinse, selling or donating containers, burying or burning containers

Agrochemical agents: do not inform farmers about recycling responsibilities & opportunities

Looking into the future of container recycling

Expand network of collection points to include distributors, agents, cooperatives, private sector players, nurseries

Manufacture pesticide containers from recycled pesticide container plastic

Expand certification compliance to all farmers (model on Global GAP and FSC)

A little compliance enforcement on farms won't hurt

Challenges and hurdles with obsolete pesticides

Massive quantity of historical stocks (600+ T)

No prevention programme in place

Quantities increase annually

Only one incineration facility in South Africa

Obsolete pesticides no longer in landfills

Lack of funding to initiate recovery and disposal programme

Looking into the future of obsolete pesticides

Legacy stocks (600 T) will require R30M to collect and dispose of

Prevention campaign urgently required

Maintenance programme urgently required (R2M to R4M per annum)

Compliance issues are enormous compared to 20 years ago

Government support basically naught

From the past to the present

- 1996 – 1998: DAFF-AVCASA Obsolete Pesticides Retrieval Scheme. DAFF R13.8M for 1,060 tonnes. 700 Tonnes incinerated in Rechem, Whales.
- 2000 – 2001: Operation Wagtail, 16 tonnes of home and home garden obsolete pesticides.
- 2000 - 2001: KAMPSAX project, only a poor inventory.
- 2004 – 2008: African Stockpiles Programme, 90 tonnes from Limpopo + Operation Wagtail stocks. World Bank and CLI paid.

Opportunities for obsolete stocks management

- CLSA has an industry waste management plan
- Inventory for W Cape and Free State exists
- Embedded expertise within CLSA
- One functional incinerator in SA
- Incineration facilities available in EU
- Sufficient haz mat sites as collection points
- Sufficient HH sites available for landfill
- Transport infrastructure in place
- Analytical facilities in place
- Labels & SDSs available via CLSA AgriIntel

Funding challenges

World Bank: appetite for SA is rather low due to history

DAFF and DEA: chances of making funds available not very good

Industry: very low appetite for legacy stocks

International funders: is industry eligible for funding???

National Lottery: may be an option

Issues to debate

Should distributors/agents participate in container management by making collection sites available? If so, how will it be managed?

Should government fund disposal of legacy obs stocks? If so, to what extent and what role should industry play?

How do we start a REAL prevention programme (to prevent accumulation of obs pesticides)?

What is the financial accountability of the generator of obs stocks?

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Thank you