



PROMOTING

KNOWLEDGE MANAGEMENT CULTURE

**Integrating environment and
social safeguards dynamics into
the agricultural research system**



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Date

10 June, 2026



Time

11:00am – 12:00pm



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Integrating~ESS~ Agricultural Research System (ESS~ARS)

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10th June, 2026

Brief Background

NRs are the basis for which AR is undertaken~ (vision, 2040).

Cognizant ~AR projects, activities~ poses diverse ES threats/risks to ENRs and society and ecosystems ~Execution

The need to integrate ESS principles and standards ~NARO~ ESS Policy 2025

What Envt'; ESS & Risks –AR

Env't~ Physical factors; biological; Aesthetic factors; Health and safety & well being (NEA, 2019)

ESS~ Measures and procedures designed to **prevent, reduce, mitigate, manage** the potential **adverse** E&S risks associated AR

ES risks~ potential **significant impacts** that accrue from implementing~AR activities

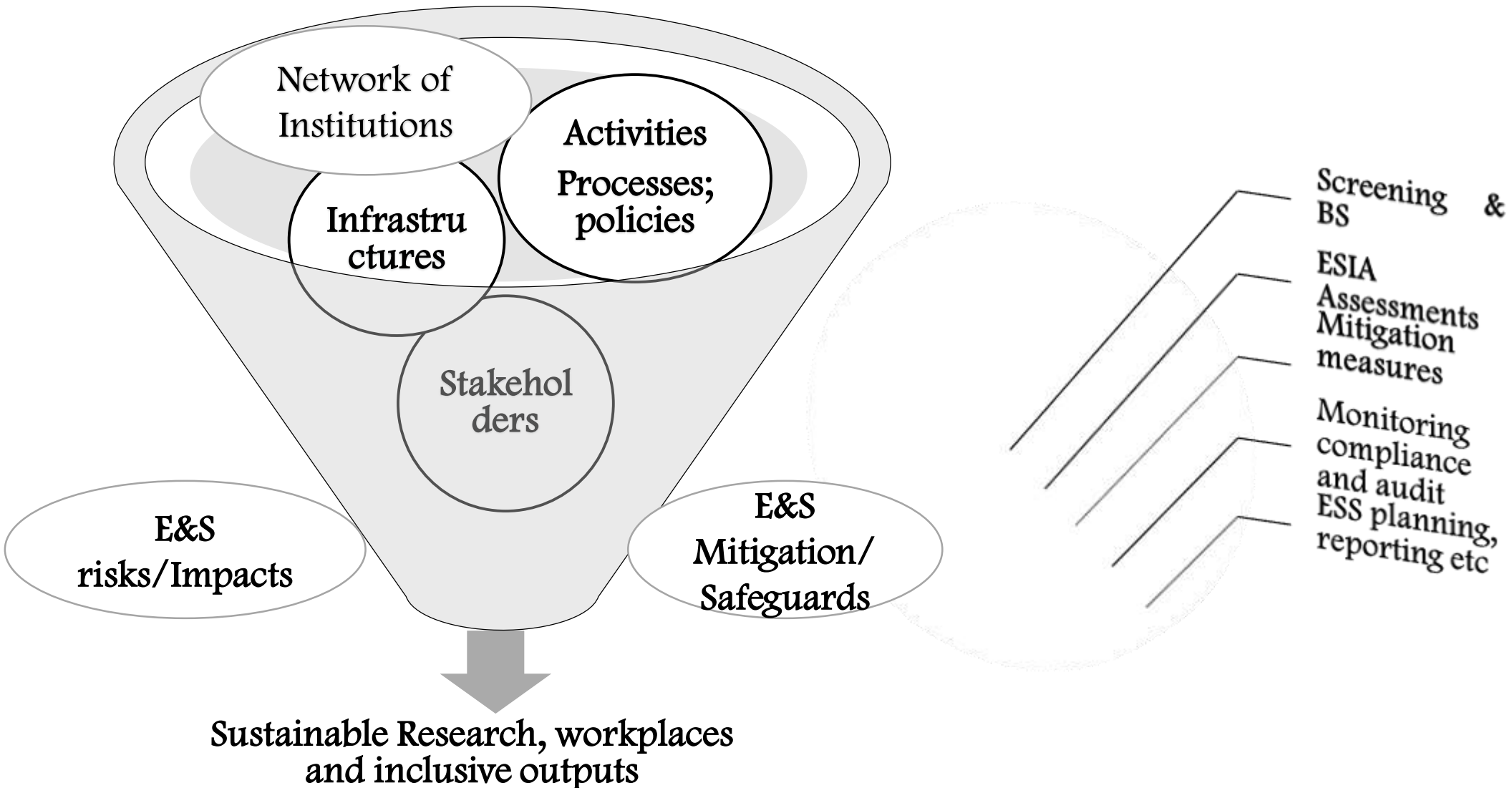
Env'tal~

Biodiversity and Ecosystem Impact (new crop varieties~ impact biodiversity, indigenous species, or alter ecosystem services); soil and water contamination; Land and resource degradation; invasive species, waste generation, climate issues; post harvest risks etc

Social

OHS~exposure to laboratory pathogens, chemicals, or accidents with research machinery; Labor Conditions; community health and safety; exclusion of vulnerable people; land use conflict etc

AR System~ESS~context



What to integrate?

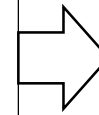
Ensuring E&S considerations
are embedded through out
the research cycle

~Environmental
risks and impact
considerations

Social risk
and impact
consideration
s

Ethical &
responsible
research
practices

Governance
compliance
measures



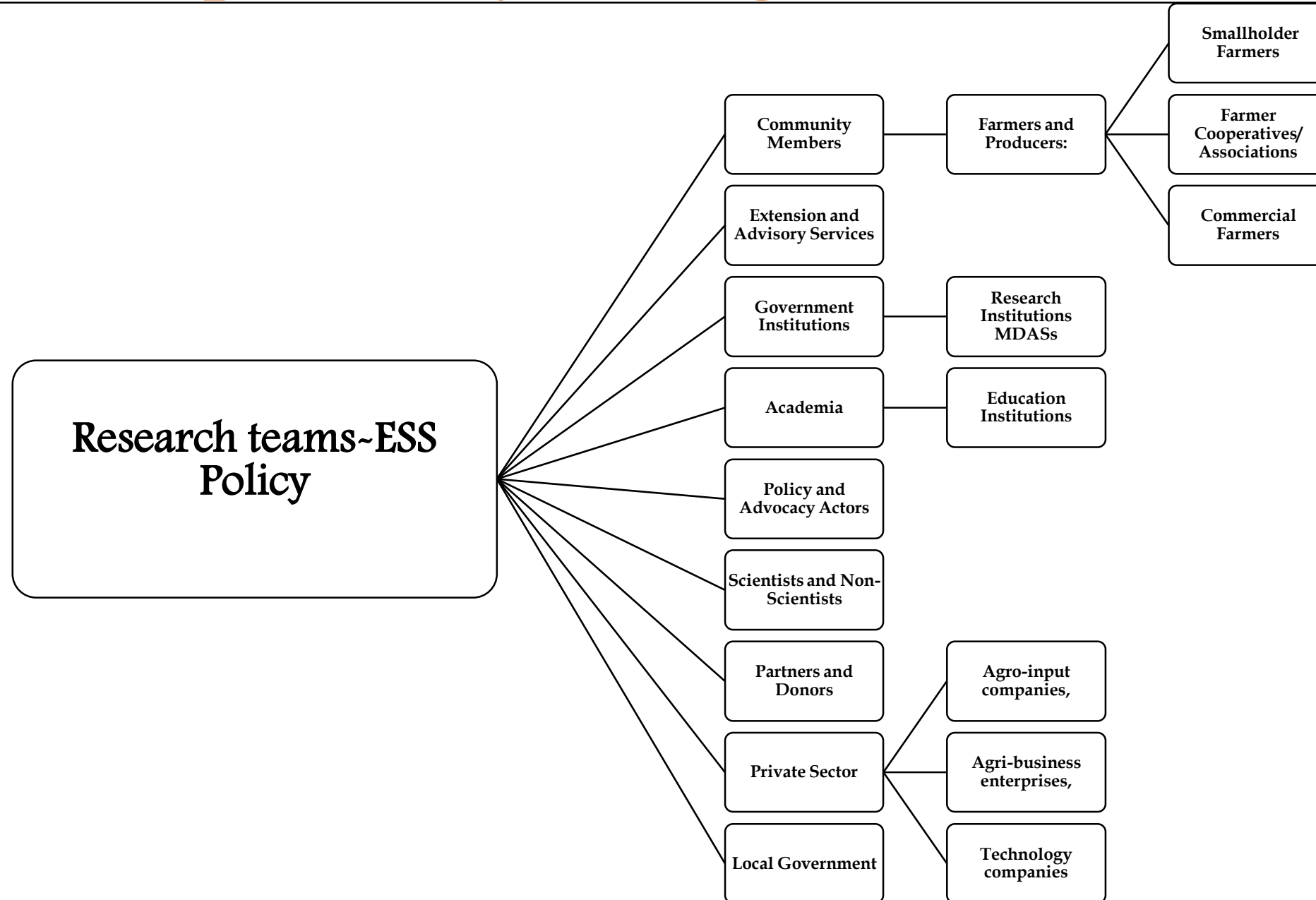
Biodiversity & ecosystems; soil
quality; water resources and quality;
air quality; waste generation;
chemical use(pesticides, Fertilizers,
lab chemicals etc; CC adaptation and
mitigation etc

Community health and safety, OHS
of land access and land use conflicts,
gender equity; discrimination,
stakeholder engagement GRM

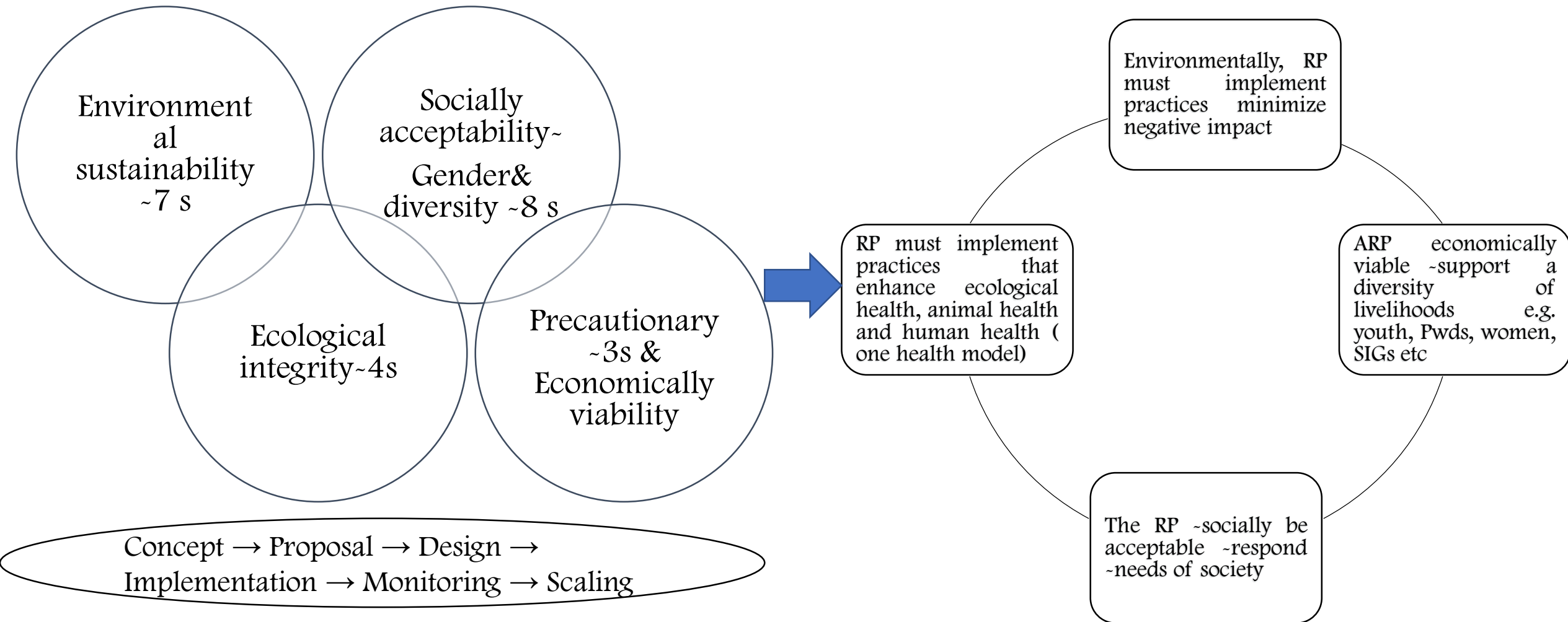
Respect for community rights;
Informed participation and consent;
Equitable benefit sharing etc

Envt planning; Envt screening, ESIA
assessments, ESMPs developments,
compliance with laws, monitoring
and reporting systems; Budgets &
Accountability

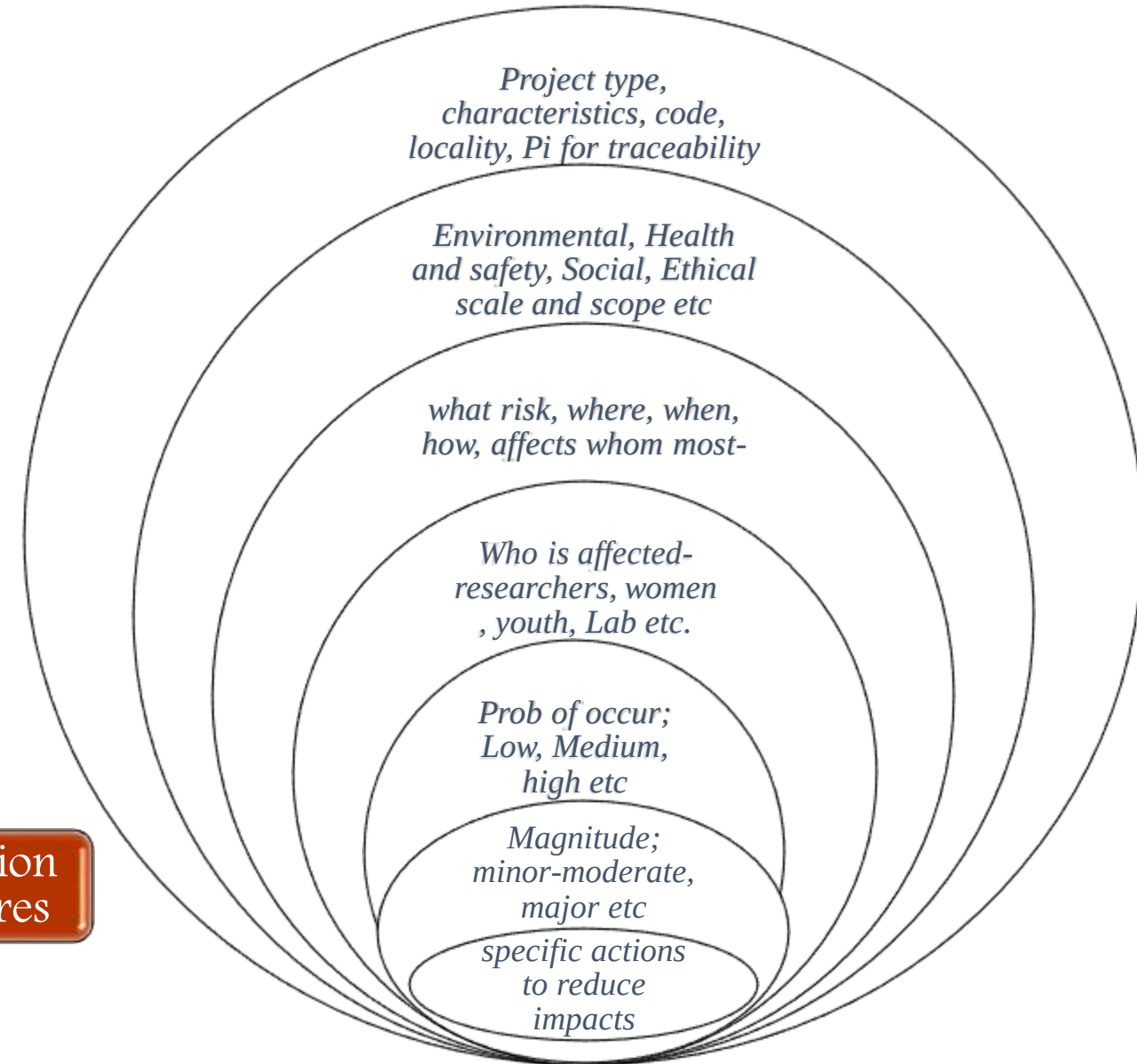
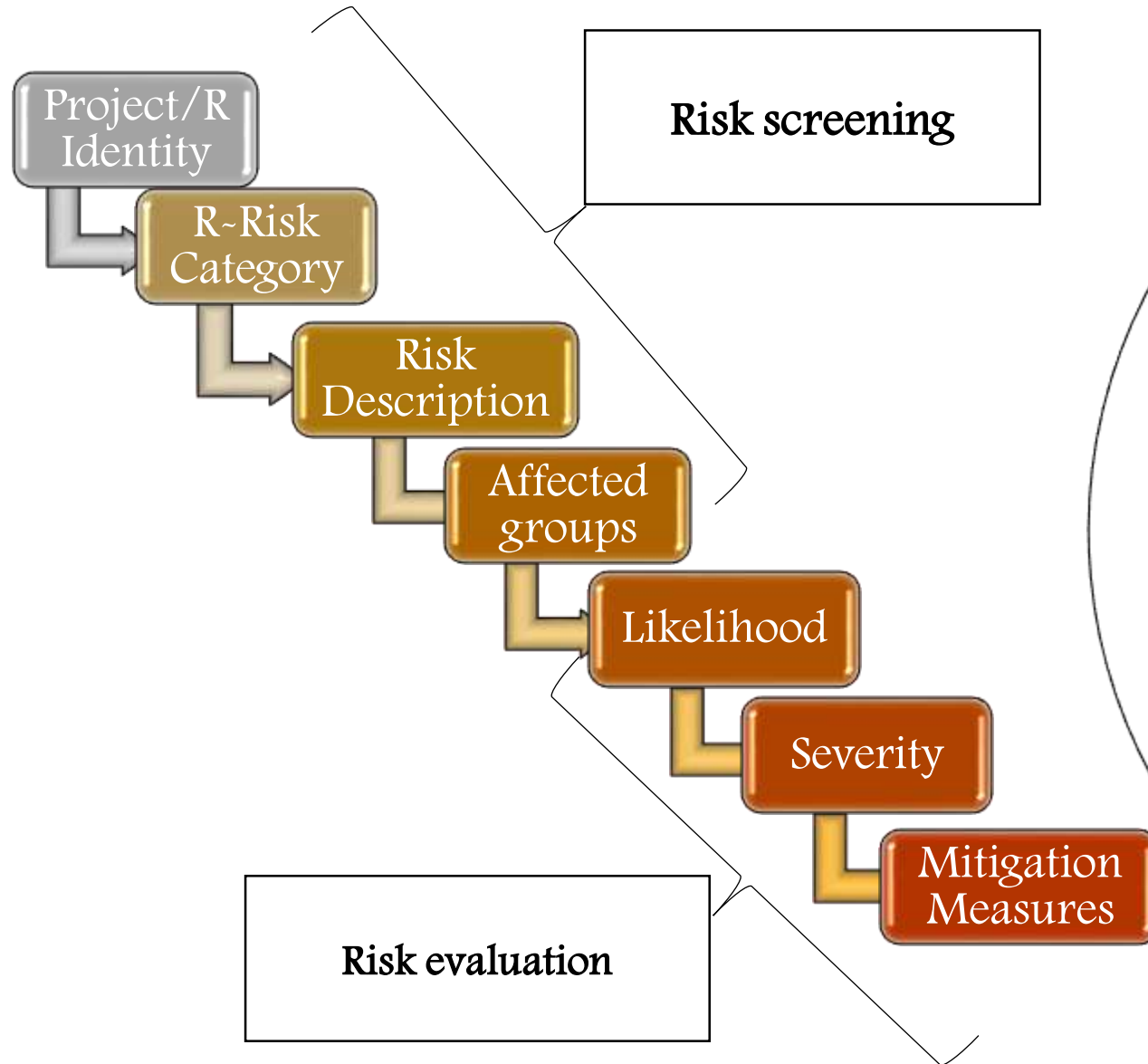
Whose responsibility to integrate?



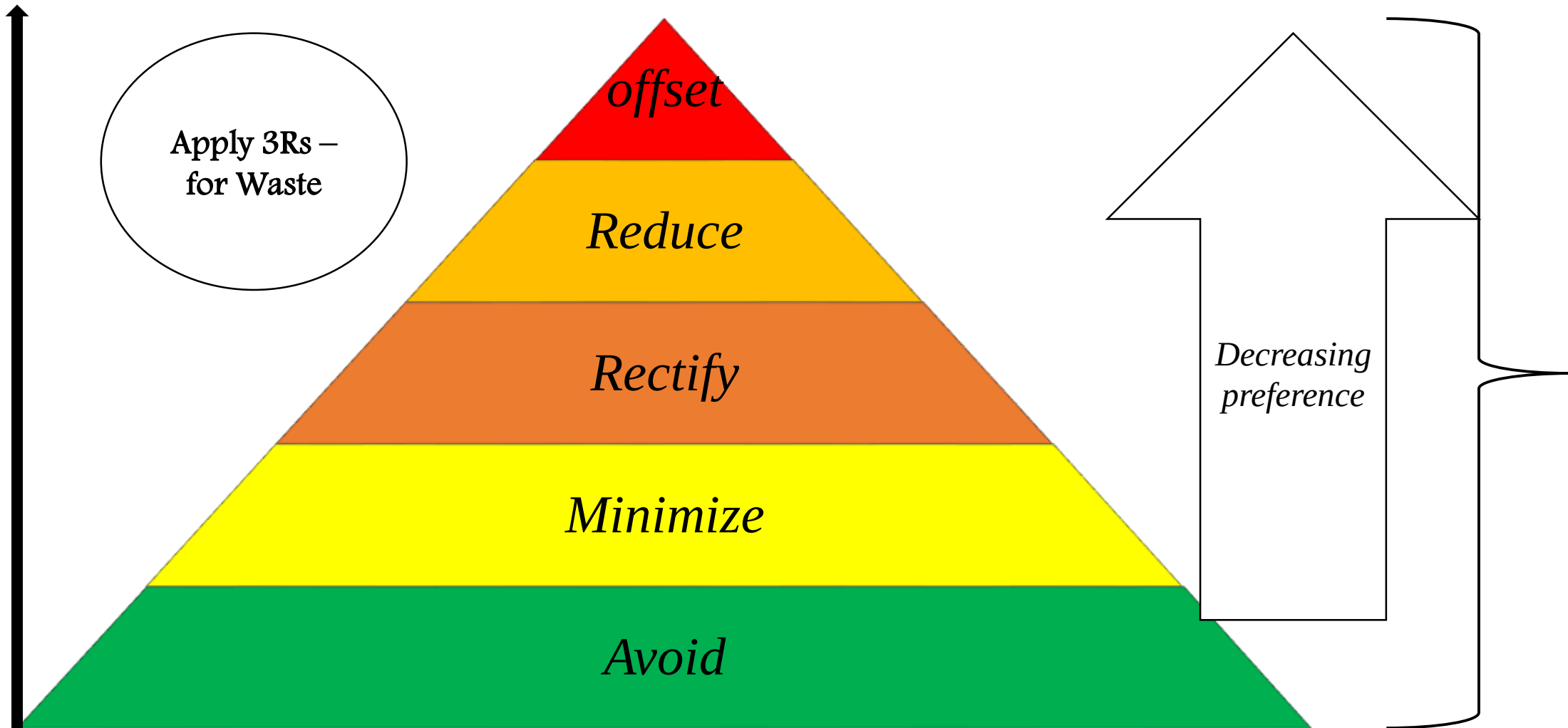
What Guides to integrate?~Principle



How do you identify? ESS-Risk -AR



How to Mgt-(MIHA-115 NEA)



What next?

Research teams should:

- Think beyond scientific outputs geared towards economic viability only
- Do R-needs assessment informed by ESS principles
- Screen ; Identify ESS risks early and mitigate them
- Engage stakeholders continuously and consistently
- Plan, Budget and implement ESS activities in your jurisdictions
- Document safeguard actions and report in your routine R activities
- Use ESS Tools for guidance
- ESS- U -shall continue to engage you accordingly

Thanks so much