



PRACTICE

Prevention and Restoration Actions to Combat Desertification
An Integrated Assessment

Prevention and Restoration Actions to Combat Desertification – An integrated Assessment

Ramón Vallejo

<http://www.ceam.es/practice>

<http://practice-netweb.eu>



PRACTICE objectives

WP1

To create an international **platform of long-term monitoring (LTEM)** sites.
To share and transfer evaluation methods and good practices

WP2


To develop an **integrated assessment protocol (IApro)** for prevention and restoration actions




WP3

To **evaluate** and exchange knowledge on prevention and restoration techniques and strategies (linking evaluation with education, knowledge sharing and **dissemination**)


IAPro, PRACTICE Integrated Assessment Protocol


 EUROPEAN COMMISSION / European Research Area / Environment


PRACTICE
Prevention and Restoration Actions to Combat Desertification.
An Integrated Assessment.

Deliverable D2.3
IAPro, Integrated Assessment protocol

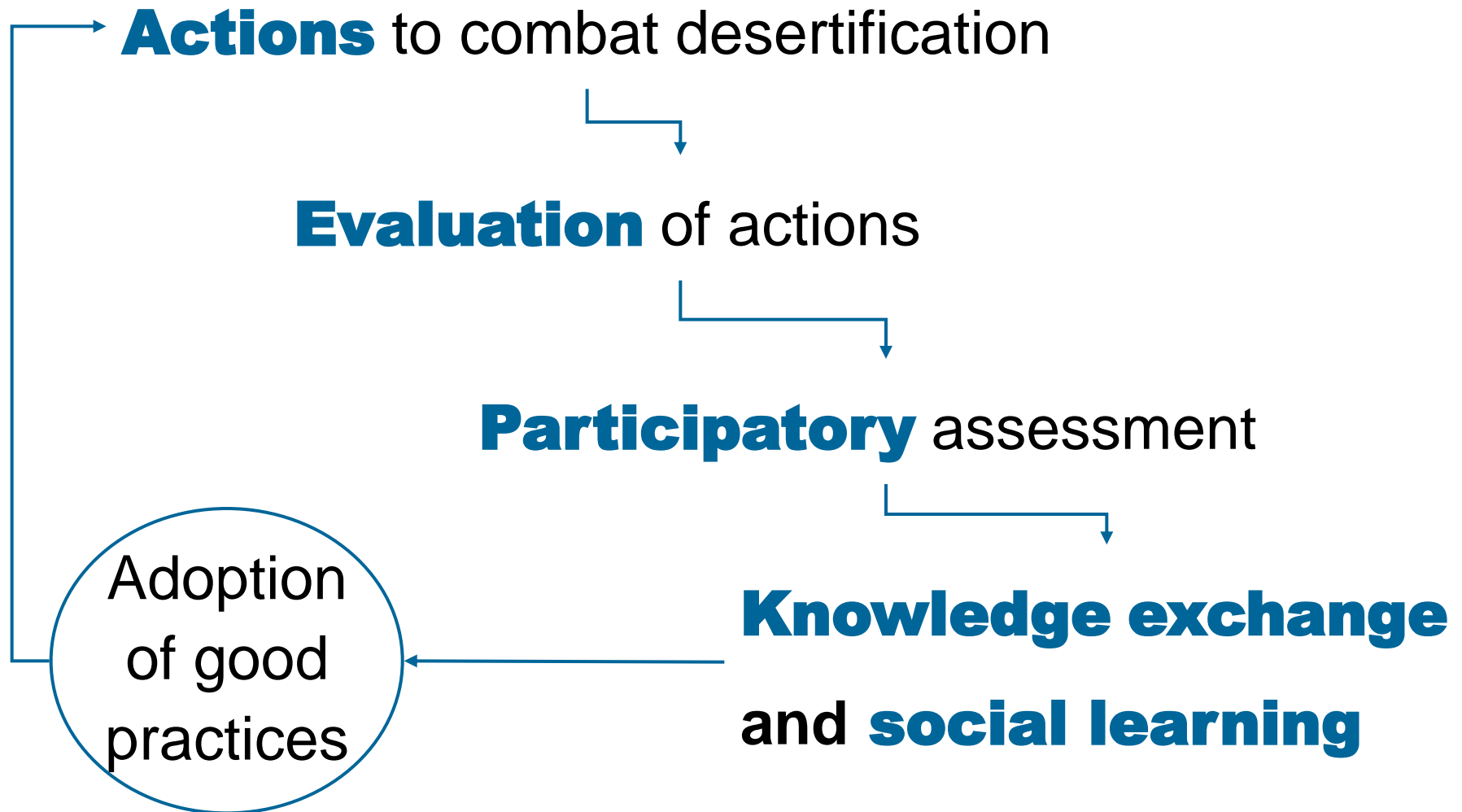
Project: PRACTICE
Prevention and Restoration Actions to Combat Desertification.
An Integrated Assessment
Coordinator: V.R. Ramón Vallejo.
CEAM Foundation, Spain
Grant Agreement no.: 226818


CEAM
FUNDACIÓN PARA EL COMBATE DE LA DESERTIFICACIÓN Y LA DEGRADACIÓN DEL MEDIO AMBIENTE

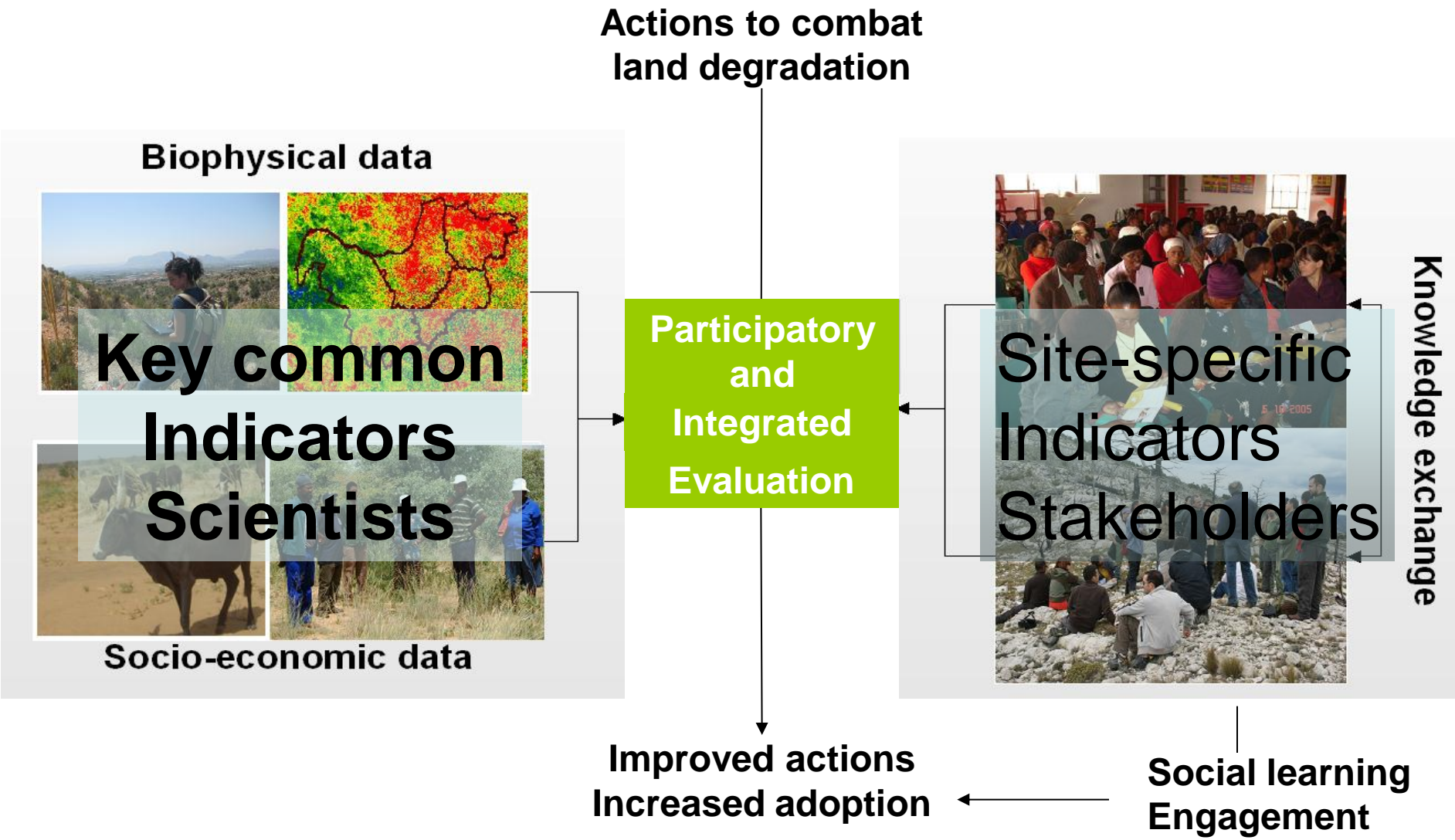
 PRACTICE

1

What is PRACTICE about ?



A Framework for Evaluation of Actions and Indicator Selection



WP1. Worldwide Platform of Long Term Monitoring Sites (LTEMs)



LTEMs: 18 (+1) sites in 12 countries.

Mediterranean Europe (Greece, Italy, Spain, and Portugal),
Africa (Morocco, Namibia, South Africa), Middle East (Israel), China, and
South and North America (Chile, Mexico, and USA)

WP3. Assessment

LTEMs: LAND USE/LAND COVER TYPES

LAGADAS, Greece



Rangelands

CHANGCHLING, China



Croplands



CASTRO VERDE, Portugal



LAS CAÑAS, Chile

Woodlands



AGOST, Spain



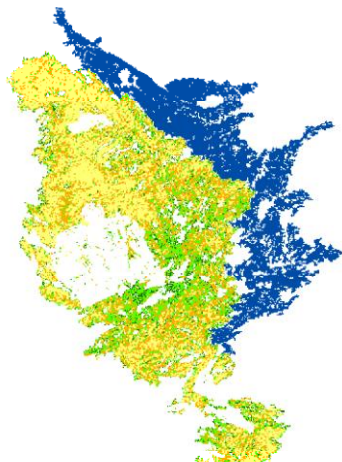
OUED DLIM, Morocco

WP3. Assessment

LTEMs: DESERTIFICATION DRIVERS



- Overgrazing
- Overexploitation of fuel-wood
- Unsustainable agricultural practices
- Recurrent forest fires



Fire recurrence map



WP3. Assessment

LTEMs: PREVENTION-RESTORATION ACTIONS

Afforestation



Evaluate restoration technologies in the "dune veld"

Dune stabilization plots started in 1997



MIER site SA



Dryland restoration



Landscape restoration

ALBATERA, Spain

Habitat conservation

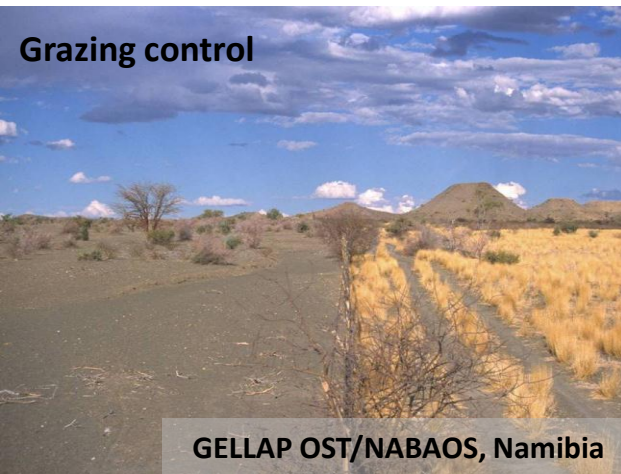


CASTRO VERDE, Portugal



Great bustard

Sustainable grazing and range management



Grazing control

GELLAP OST/NABAOS, Namibia



Fodder shrub plantations

OUED DLIM, Morocco



Restoration of pastures

EL SALADO, Mexico

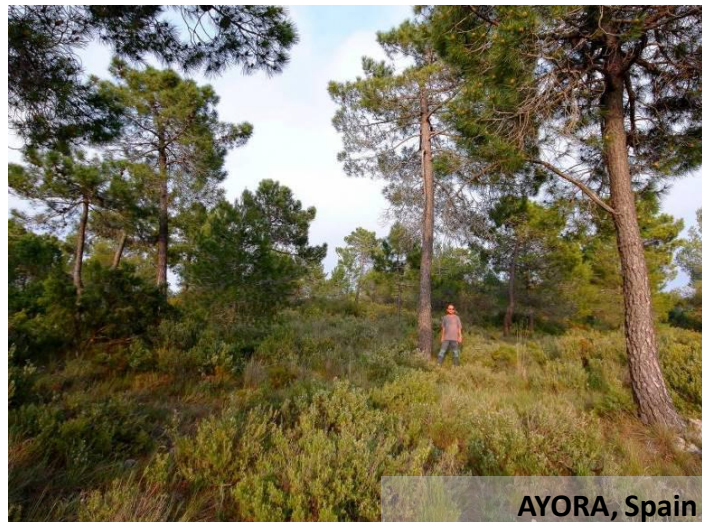
WP3. Assessment

LTEMs: PREVENTION-RESTORATION ACTIONS

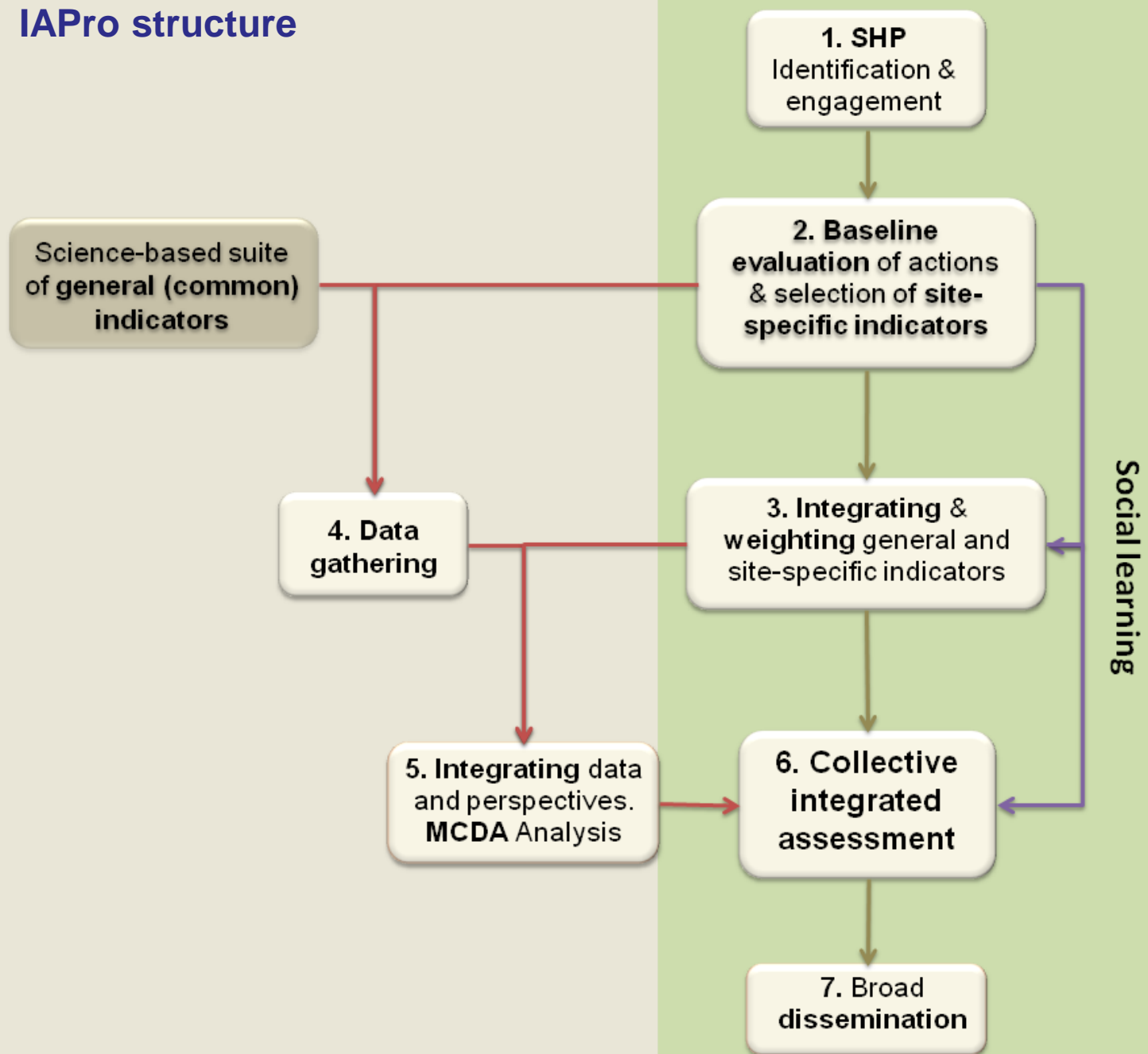
Soil conservation practices



Forest and fire hazard management (fuel control treatments)



IAPro structure



Science-based suite
of **general (common)**
indicators

**4. Data
gathering**

**5. Integrating data
and perspectives.
MCDA Analysis**

1. SHP
Identification &
engagement

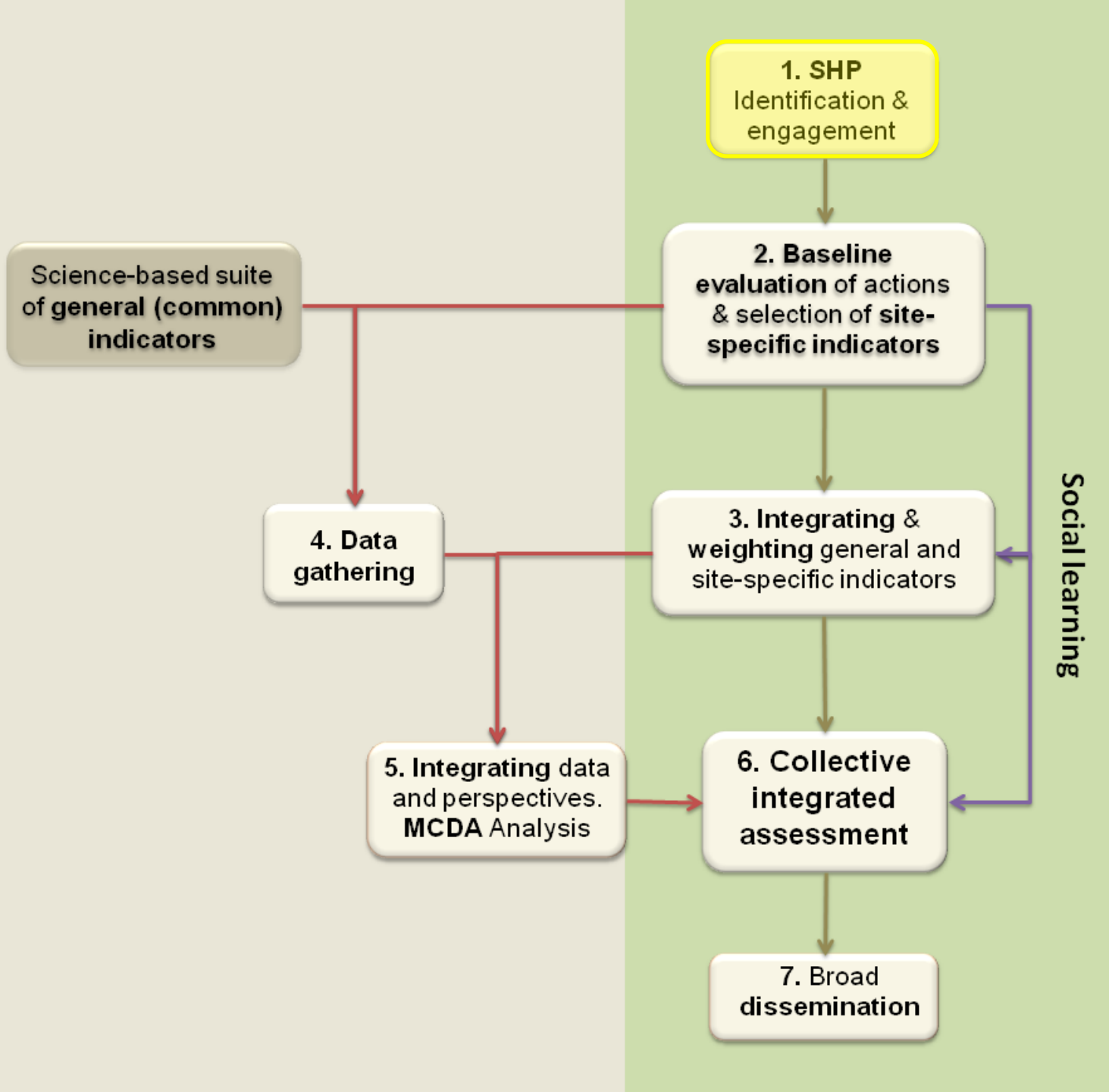
**2. Baseline
evaluation of actions
& selection of site-
specific indicators**

**3. Integrating &
weighting general and
site-specific indicators**

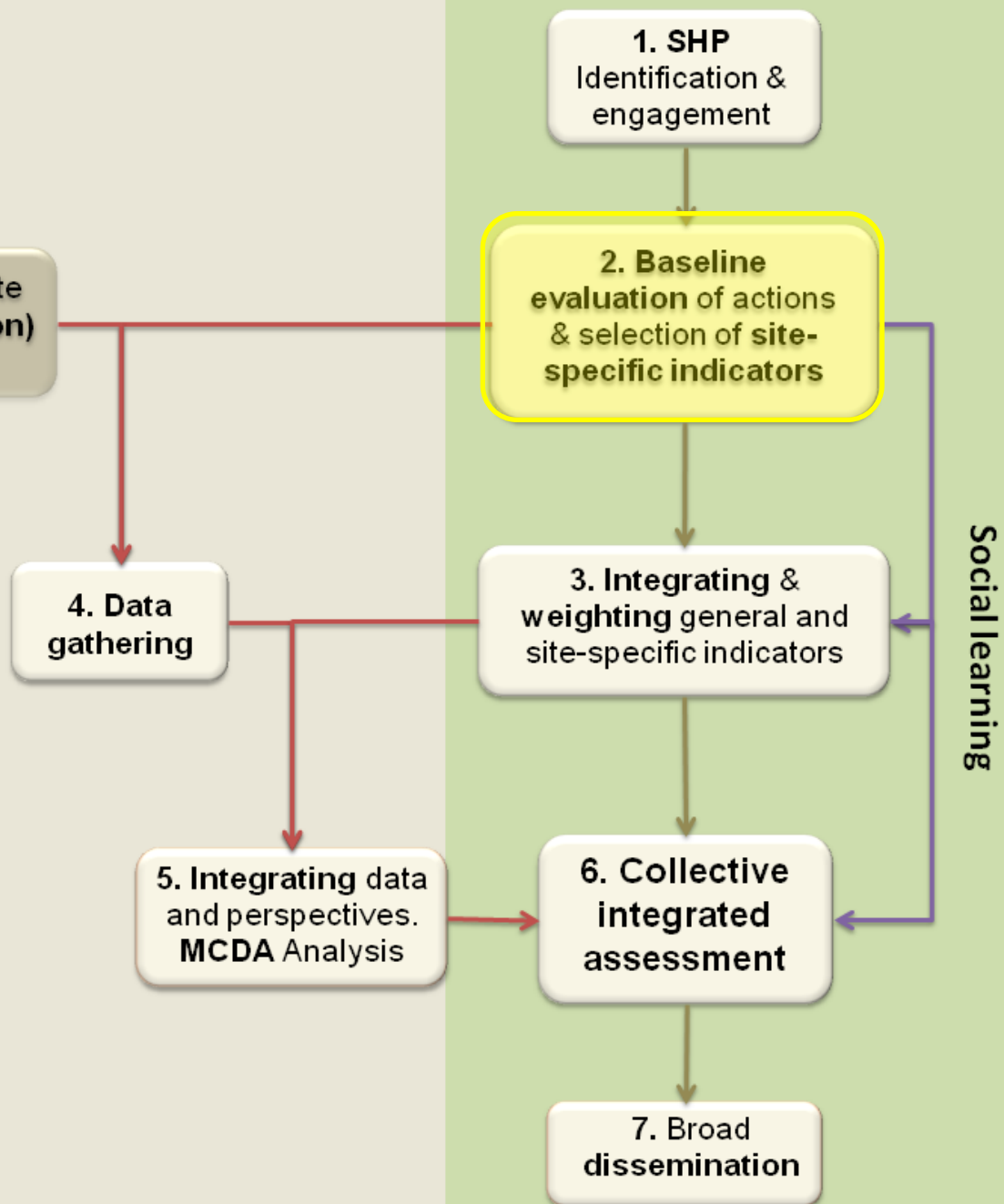
**6. Collective
integrated
assessment**

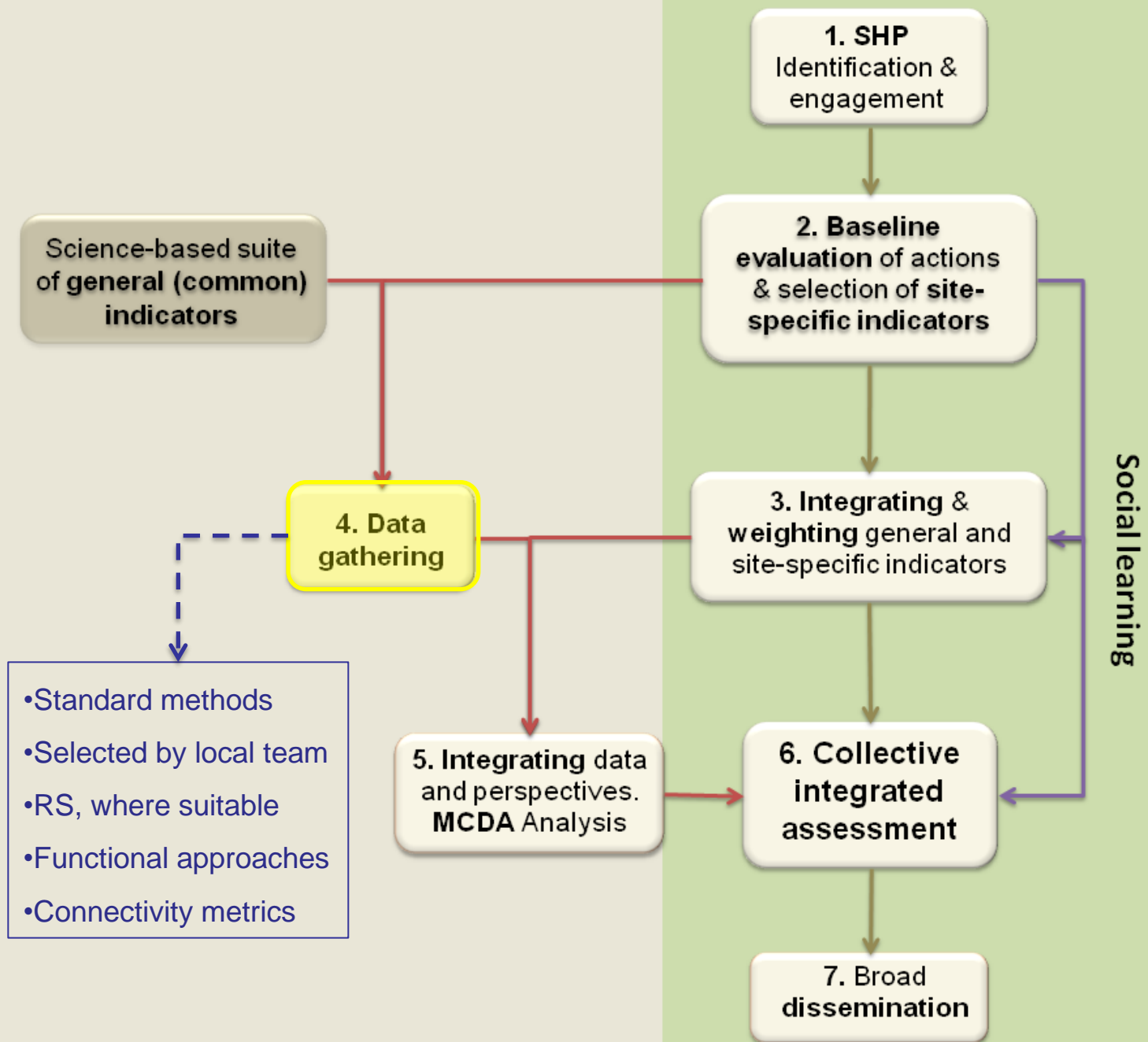
**7. Broad
dissemination**

Social learning

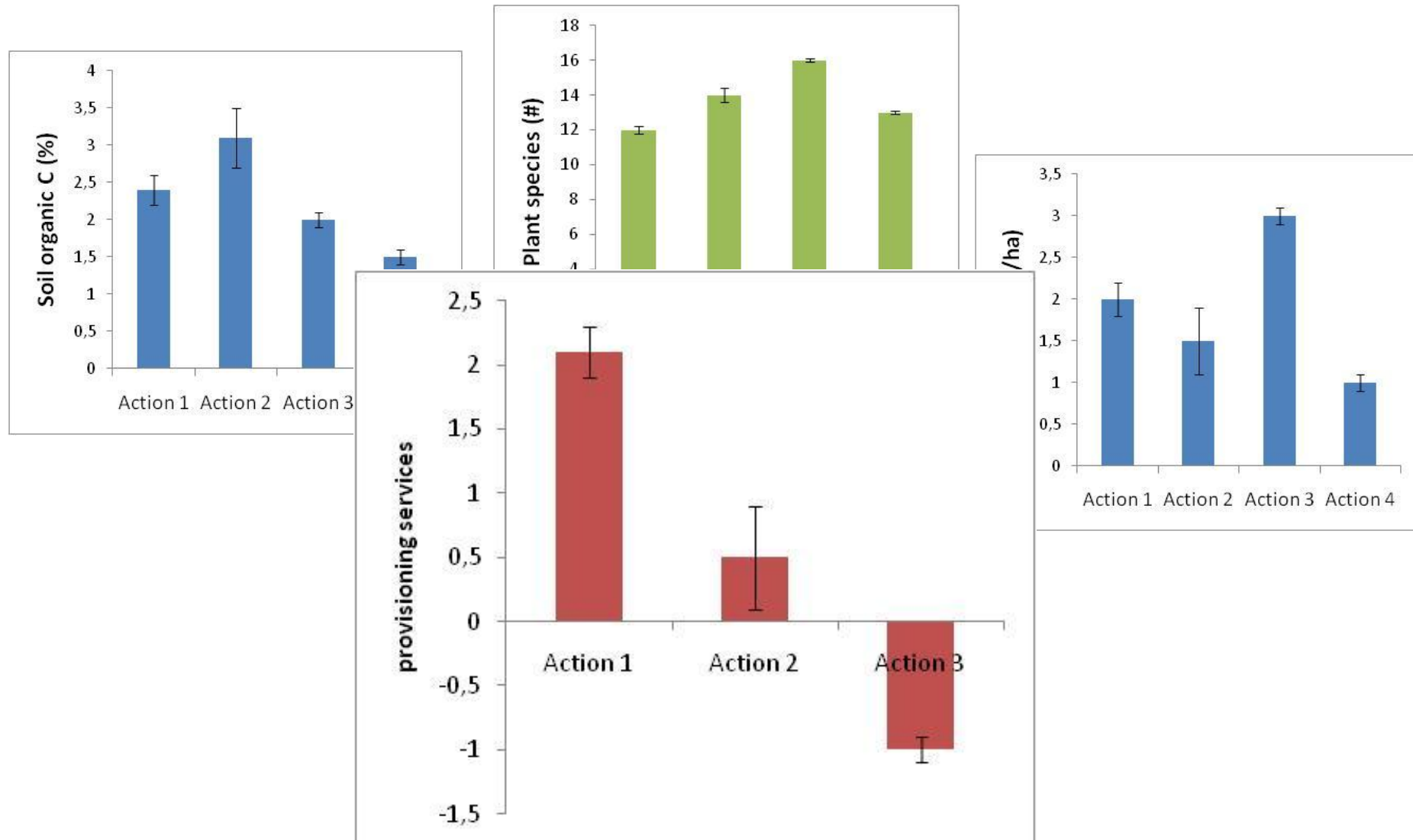


Science-based suite
of **general (common)**
indicators





Data on (common) indicators



Science-based suite
of **general (common)**
indicators

**4. Data
gathering**

**5. Integrating data
and perspectives.
MCDA Analysis**

1. SHP
Identification &
engagement

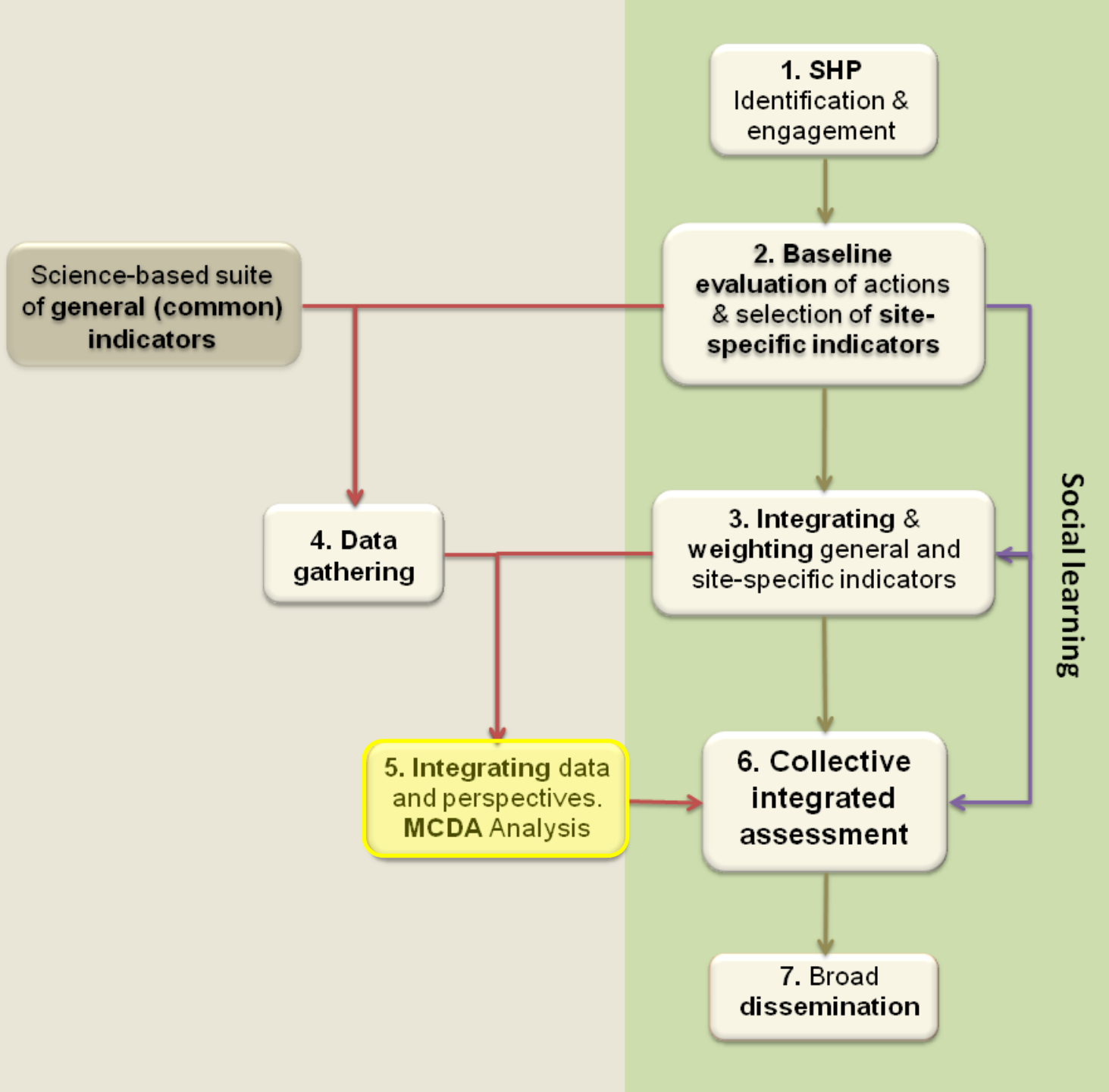
**2. Baseline
evaluation of actions
& selection of site-
specific indicators**

**3. Integrating &
weighting general and
site-specific indicators**

**6. Collective
integrated
assessment**

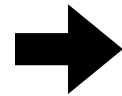
**7. Broad
dissemination**

Social learning



Present Step5 (MCDA) results

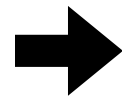
The components for MCDA ranking of management/restoration actions



Relative weight of
the indicators

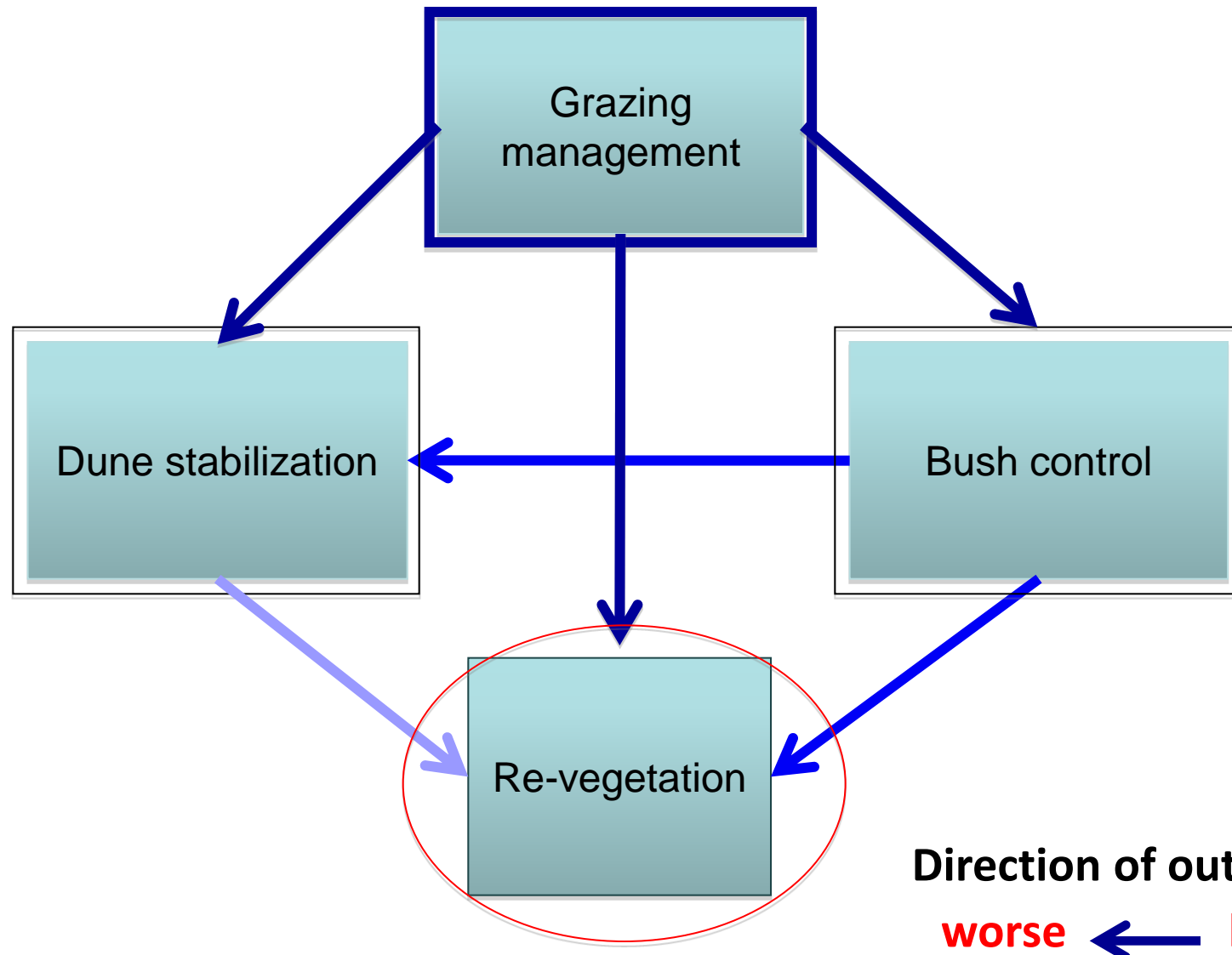


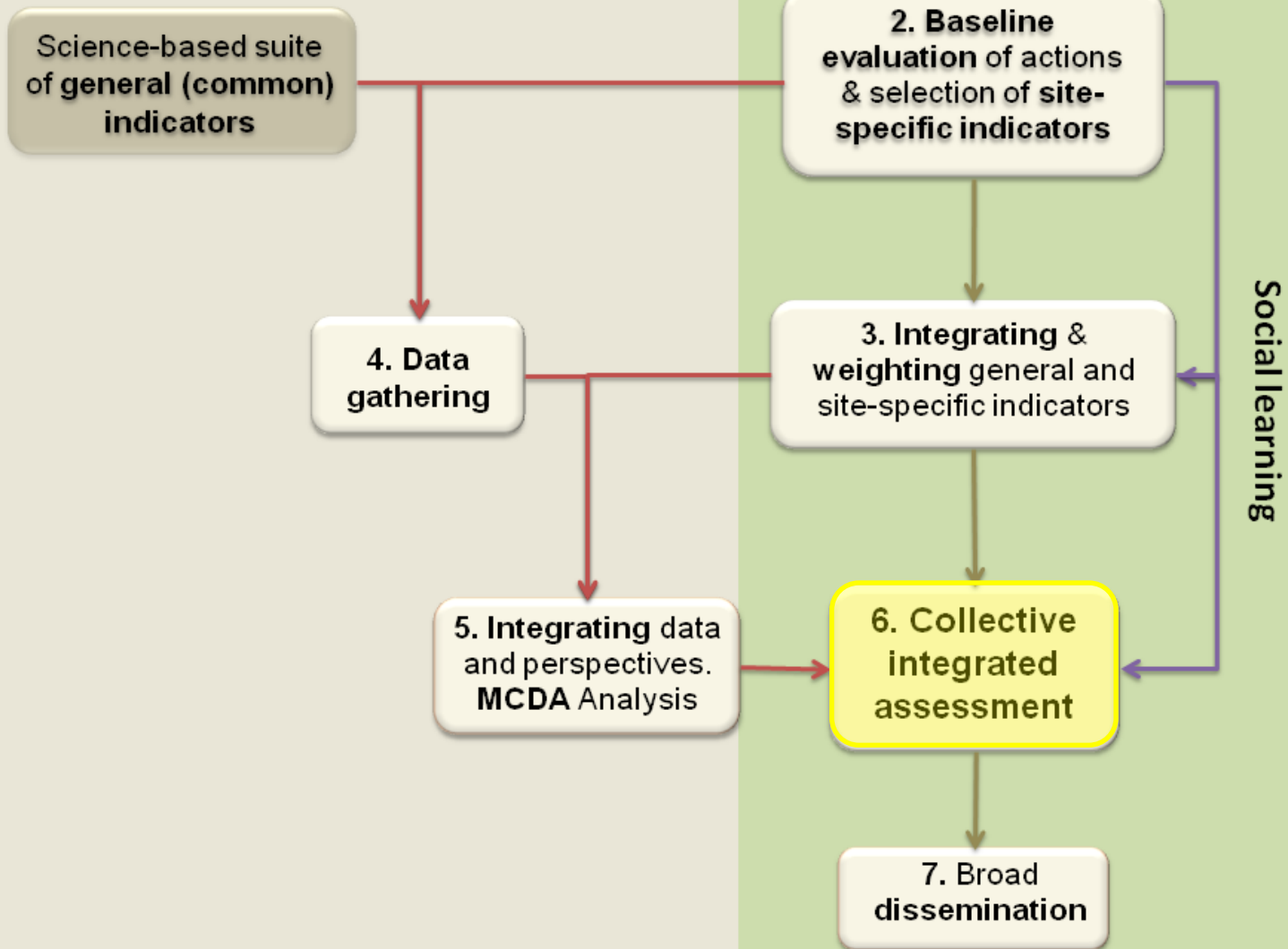
Ranking of
management/rest
oration actions

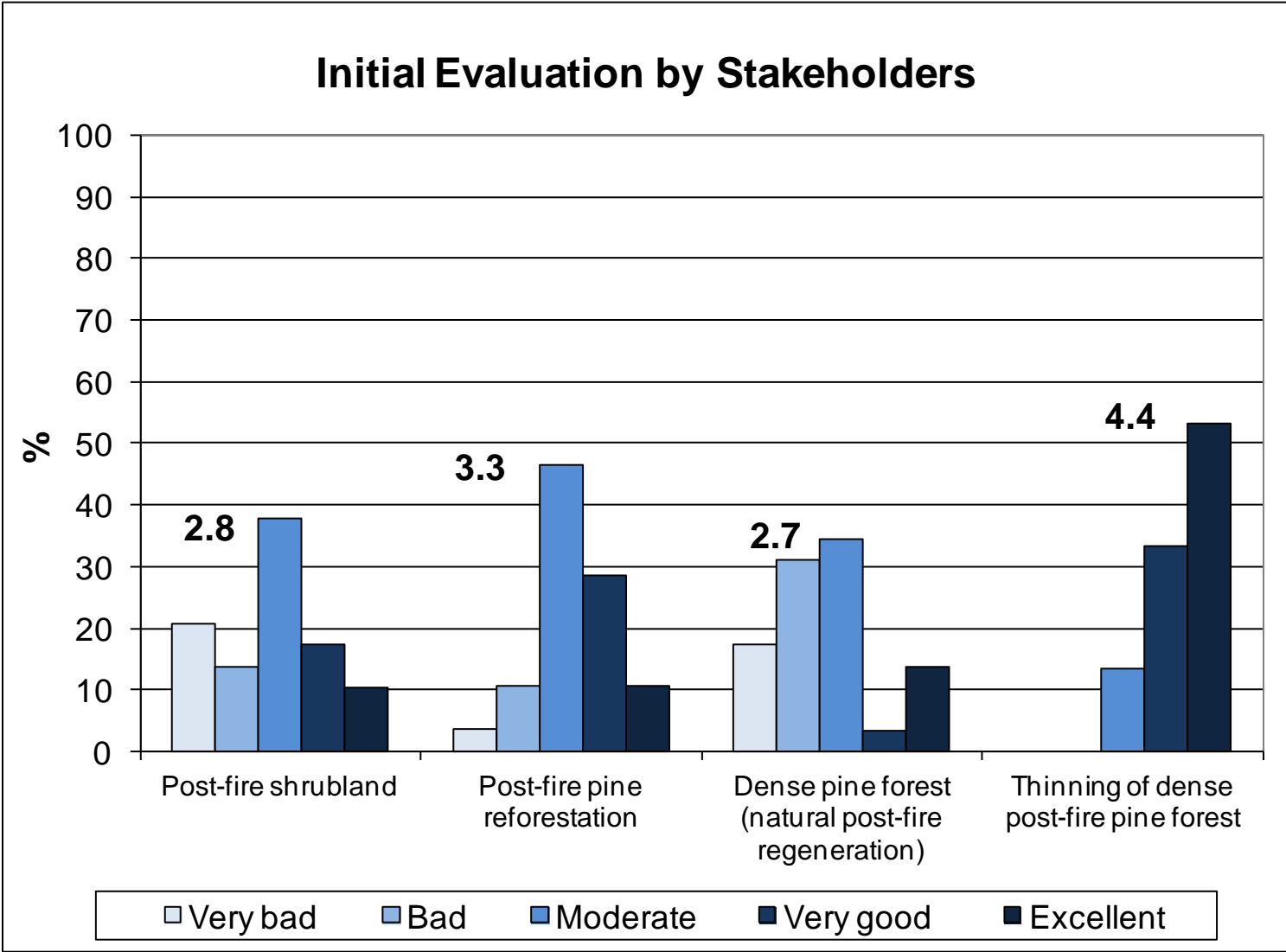


Values for the
indicators

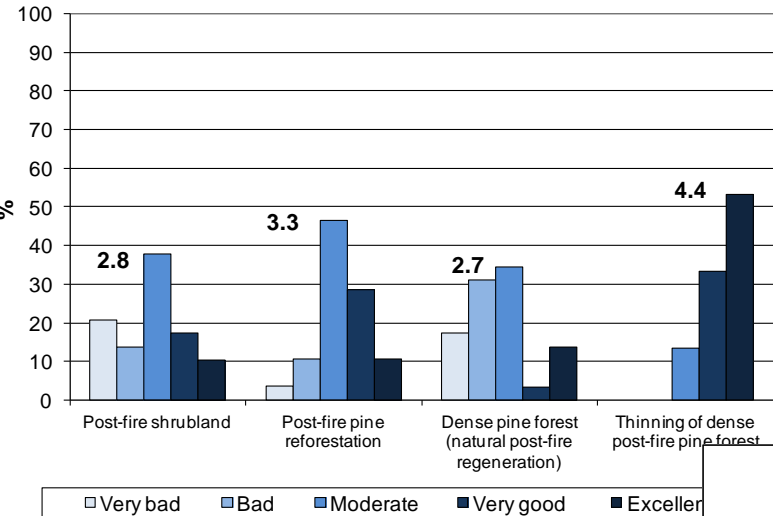
Outranking results of the actions in the duneveld based on group normalized weights for all indicators



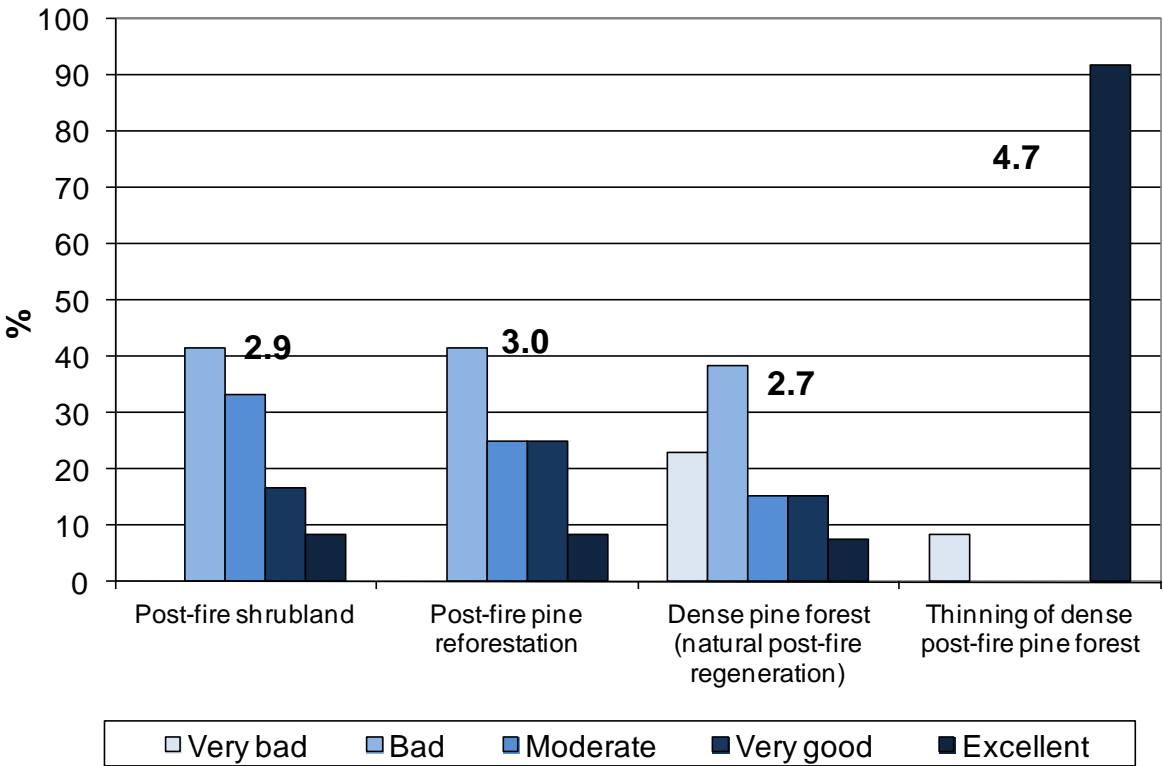




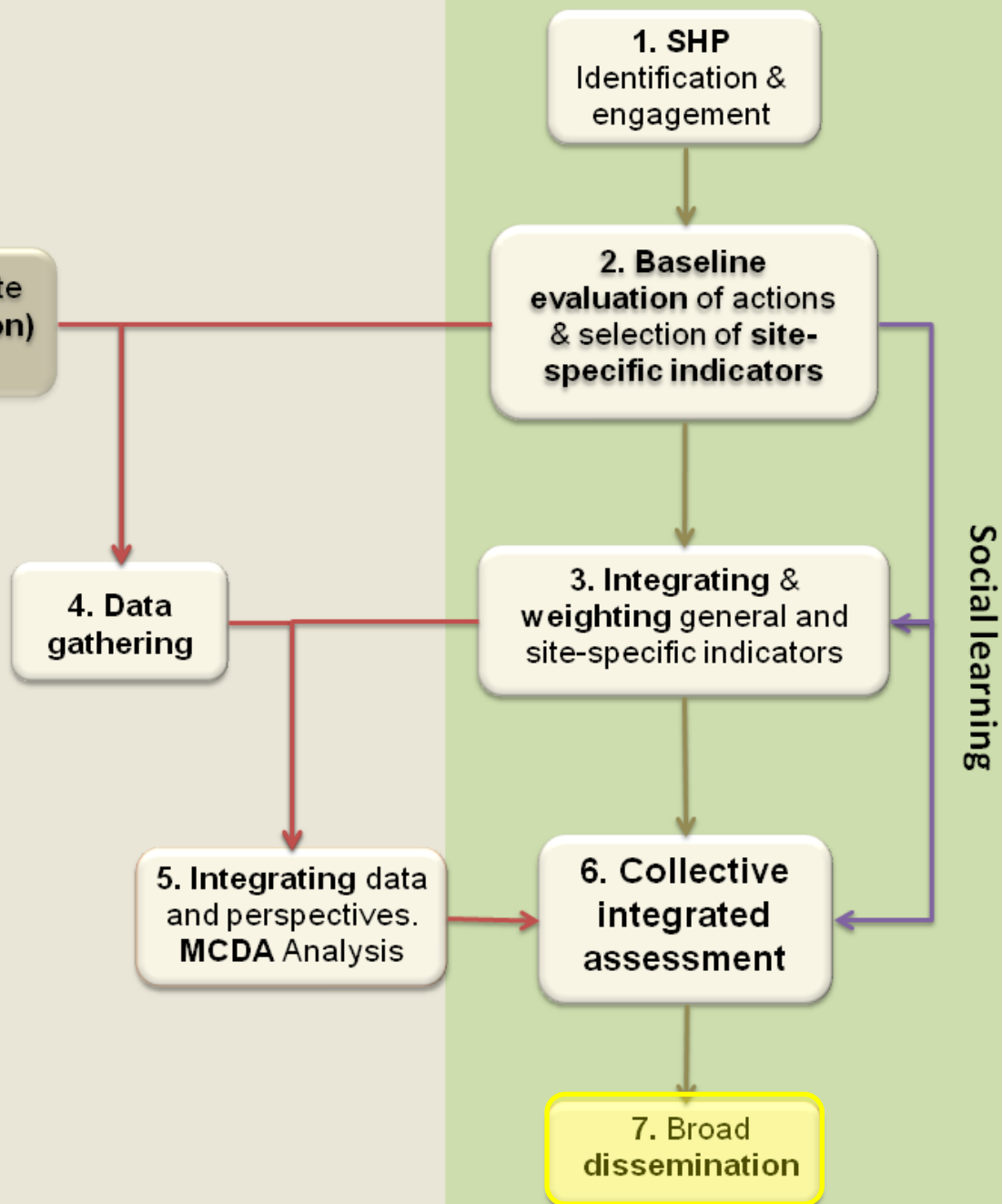
Initial Evaluation by Stakeholders



Final Evaluation by Stakeholders



Science-based suite
of **general (common)**
indicators





To make knowledge
dissemination materials
/ organize exhibition
based on participants'
collective wishes

