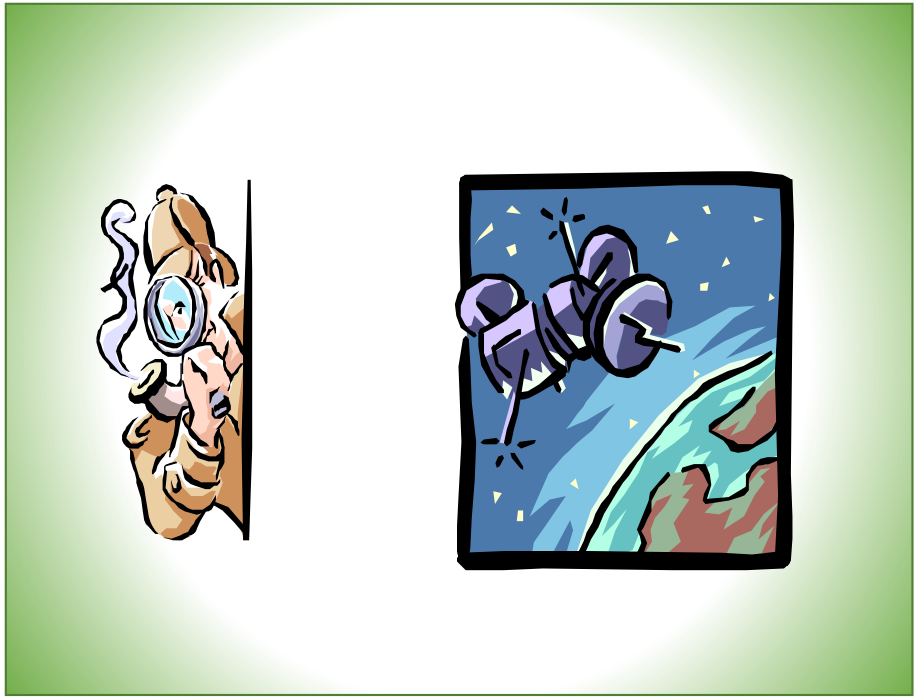
Integrated Surveillance

Priority Animal Diseases (TADs) and endemic production diseases



Chris Bartels
International Team Leader
Livestock Commercialization Project

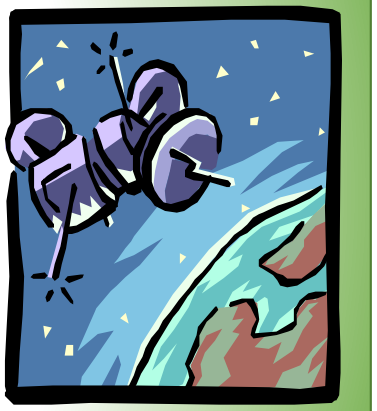
Integrated Surveillance

Priority Animal Diseases (TADs) and endemic production diseases

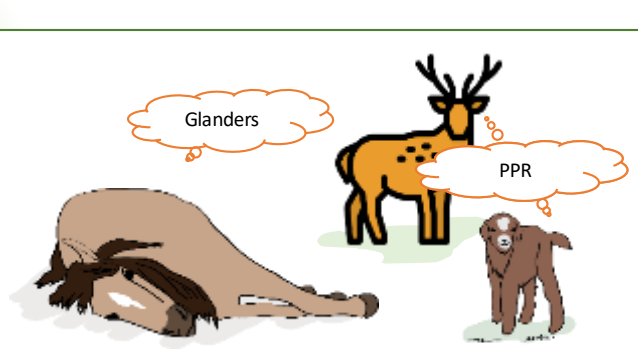
Data need to understand risks and routes of disease transmission

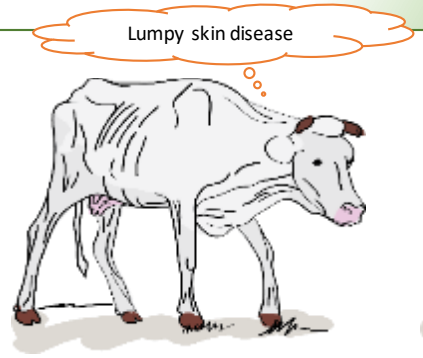
OBJECTIVES

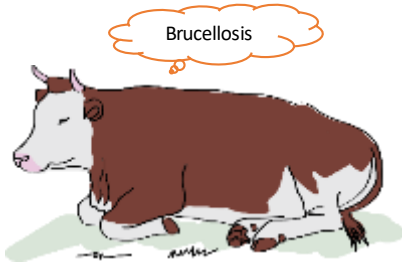
1. Evidence of absence
2. Early detection known diseases and emerging diseases
3, Following trend in prevalence of known diseases



Establishing a Veterinary Diagnostic Laboratory Network including quality management and in-house training





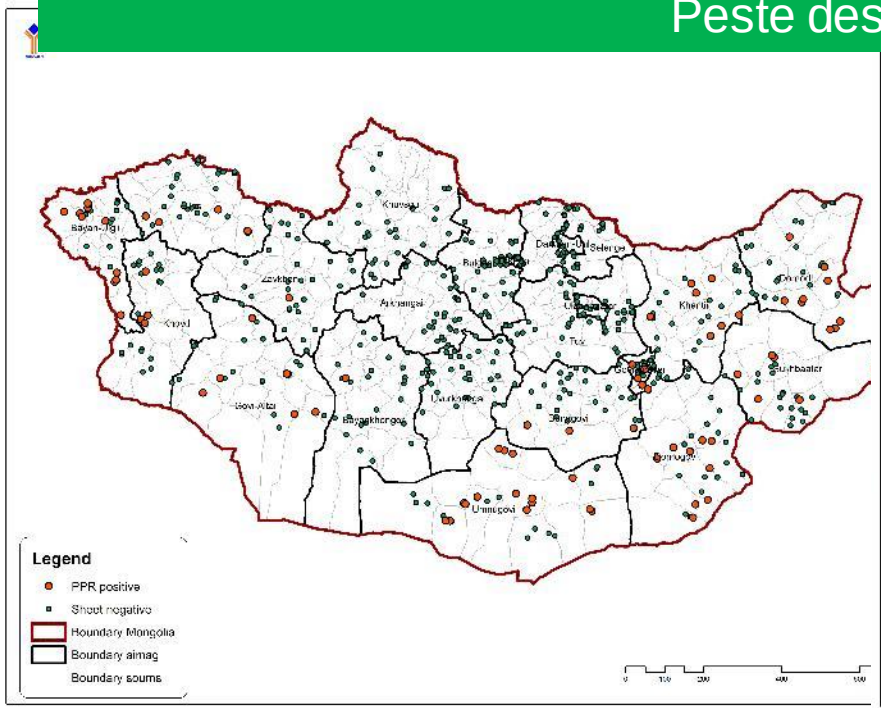


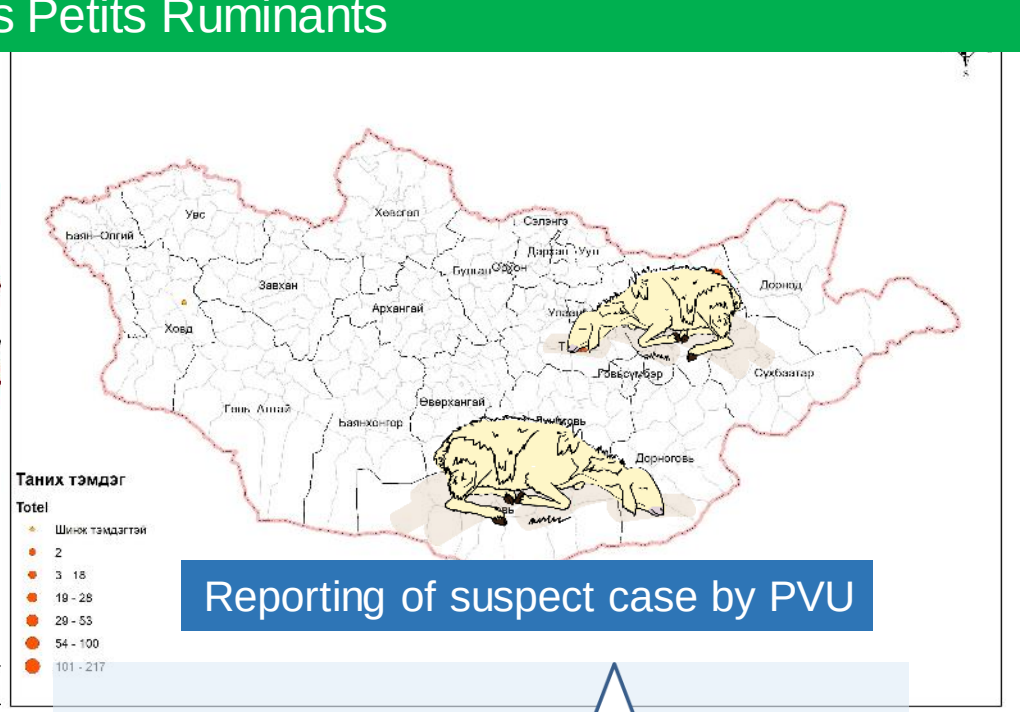
Active surveillance

Passive surveillance

Food and Agriculture Organization of the United Nations

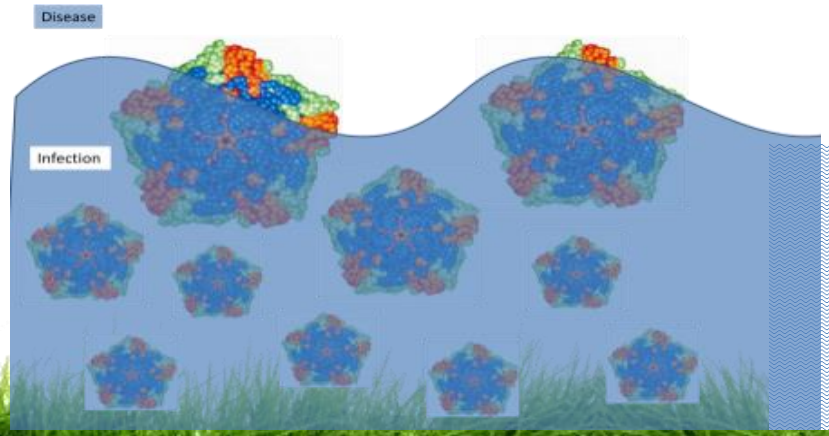
Peste des Petits Ruminants

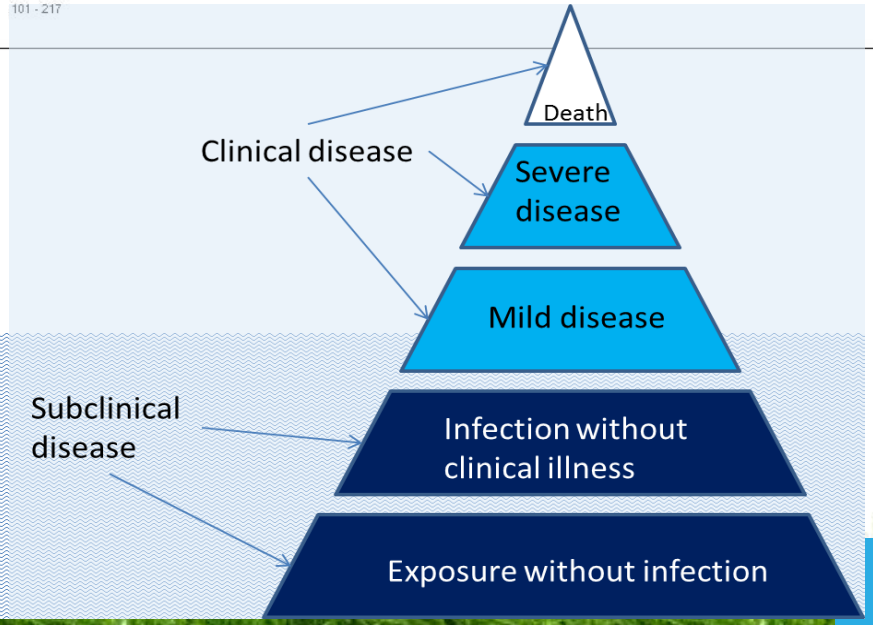




Reporting of suspect case by PVU

Sero-survey priority animal diseases





Post-vaccination monitoring for priority animal diseases

Sero-survey priority animal diseases

Wildlife surveillance (cross-sectional and sero-survey)

Slaughterhouse sero-survey

Risk assessment reports (Soum, Aimaig)

Zero reporting by PVUs at time of outbreaks

PVU Clinical examination when applying for Veterinary Certificate

PVU Clinical examination as part of herd visits

Reporting of suspect case by PVU

Helpline for Herders and PVUs

Active surveillance

Disease specific

Control over design – representative

High inputs (time, people, money)

Long duration for sampling and testing

Coverage limited

Passive surveillance

Disease a-specific

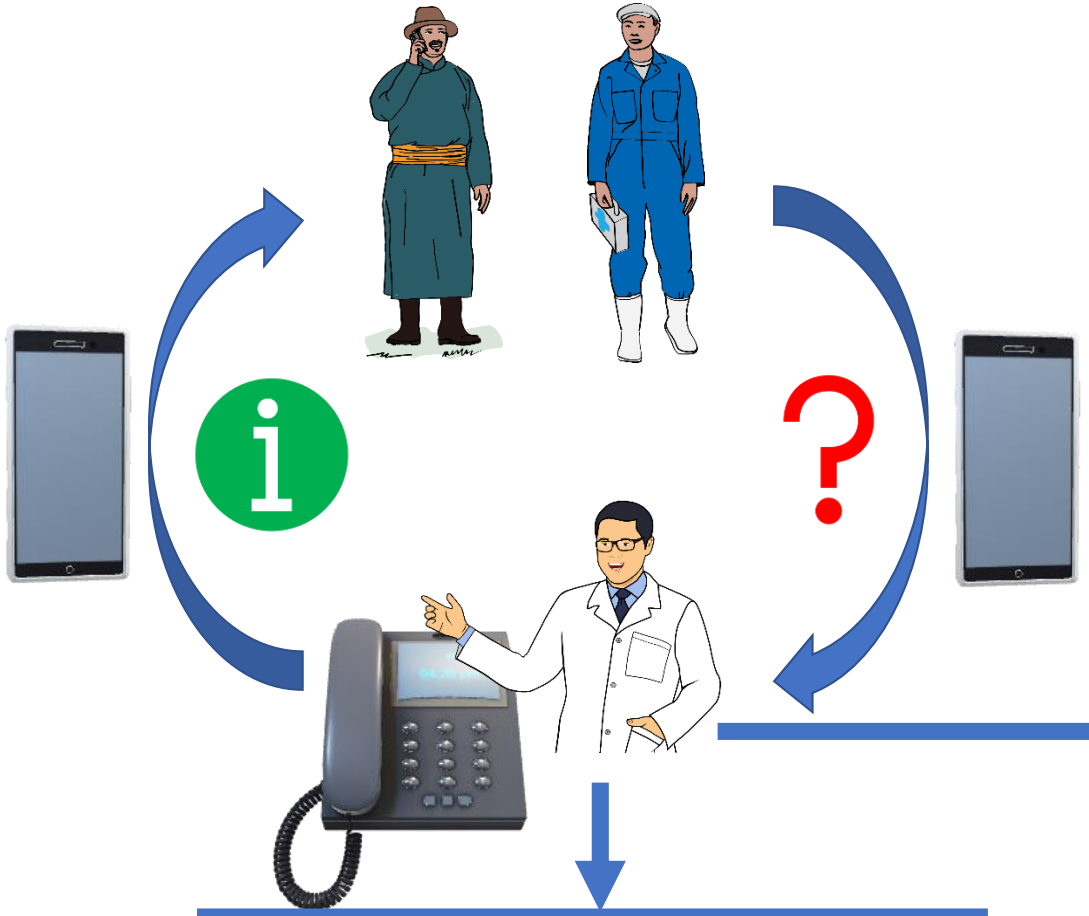
Little control over design – not representative

Wide coverage

Potentially timely

Small costs

ТУСЛАМЖИЙН УТАС

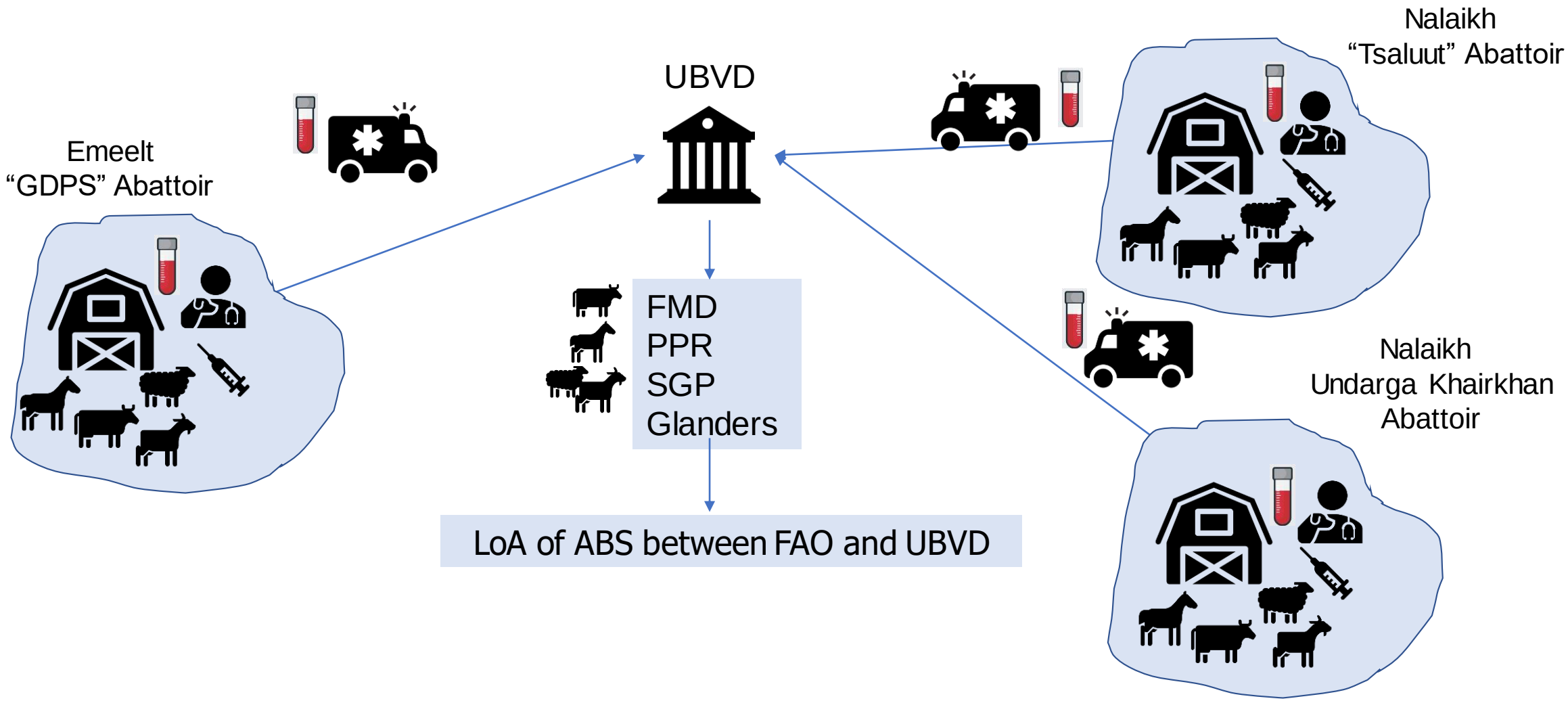


МАЛ ЭМНЭЛГИЙН НЭГДСЭН СИСТЕМ

Тогтмол дүн шинжилгээ хийх

Мэргэжилтнүүд хоорондоо тогтмол зөвлөлдөх

Abattoir surveillance

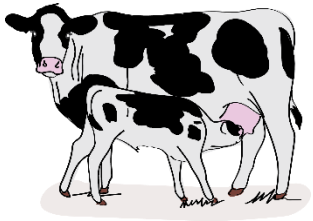


ТЭГ ТАЙЛАН

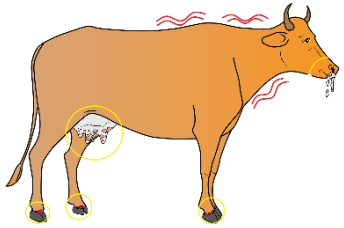
Тодорхойлолт

МАЛ ЭМНЭЛГИЙН НЭГДСЭН СИСТЕМ

Сум/Аймаг/Төв



Ямар нэг эмгэг шинж тэмдэг илрээгүй

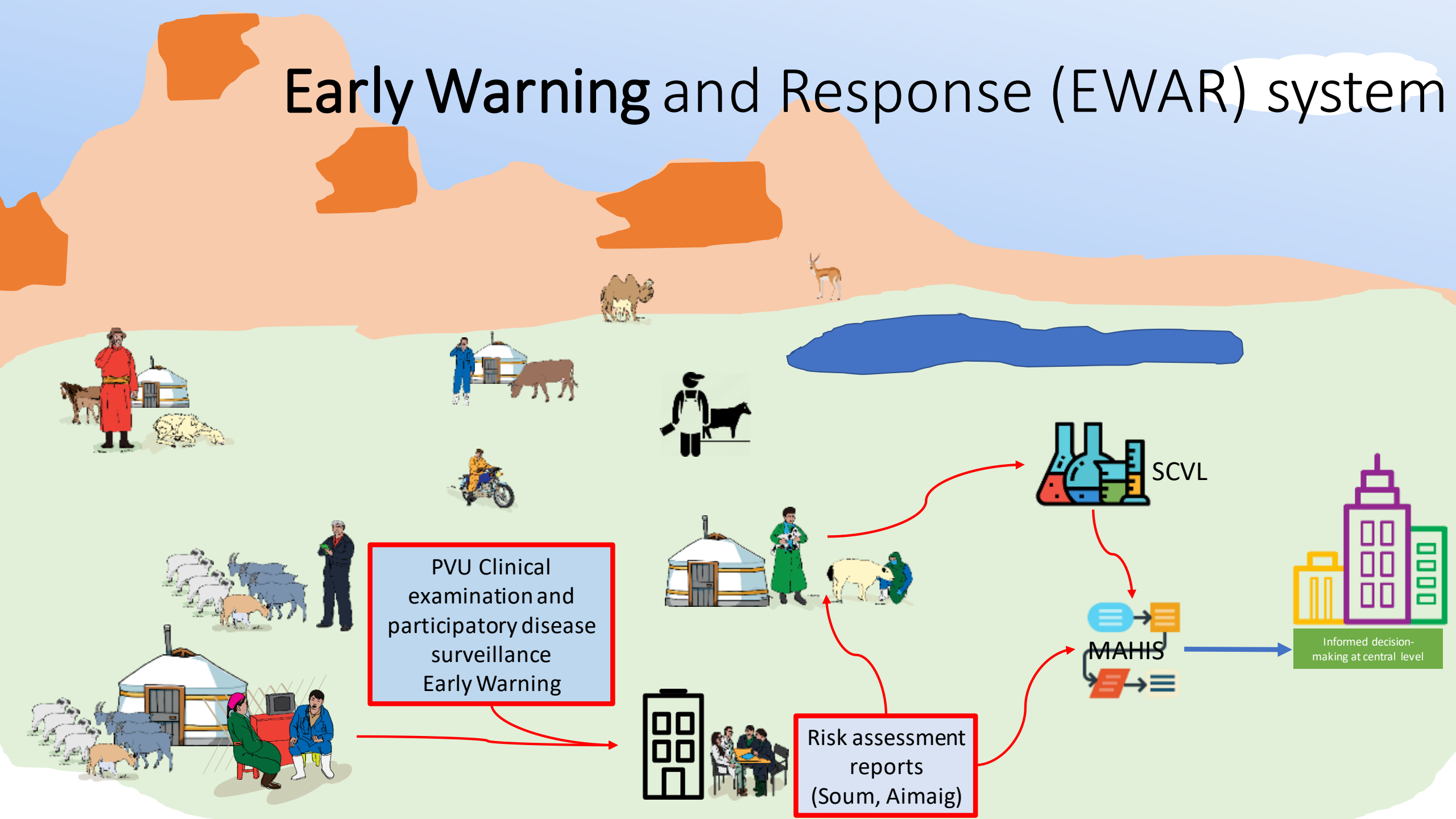


Ямар нэг эмгэг шинж тэмдэг илрэх

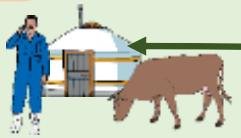
Хариу арга хэмжээ

- Ялгаварлан оношлох
- Онош баталгаажуулах
- Нэмэлт судалгаа, шинжилгээ
- ...

Early Warning and Response (EWAR) system



Early Warning and Response (EWAR) system



Risk mapping allowing herders, PVUs, traders to understand location of high-risk areas

Training and awareness raising

SCVL

PVU Clinical examination and participatory disease surveillance Early Warning

Risk-based, effective ontrol measures

MAHIS

Informed decision-making at central level

Risk assessment reports (Soum, Aimaig)

Outbreak investigation
Risk assessment
Impact assessment

Integrated surveillance is the means to what end?
Healthy livestock provides healthy food

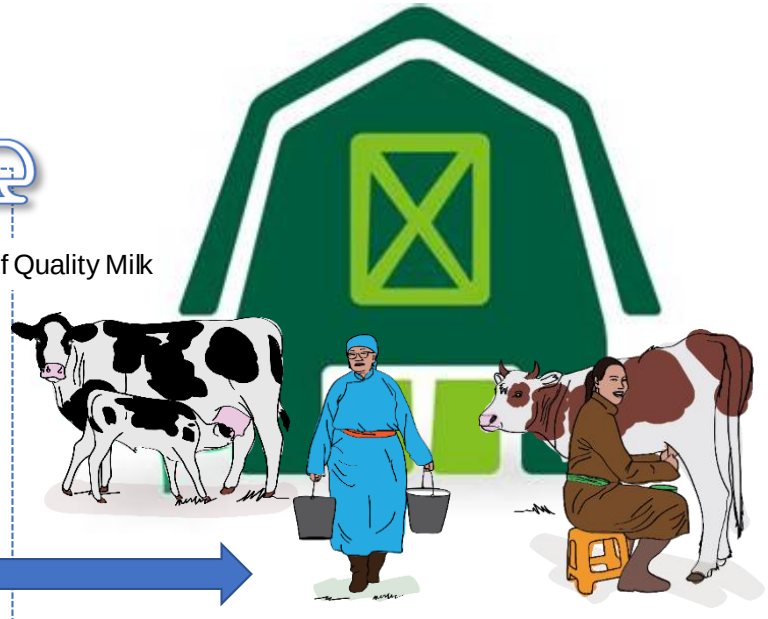
Training & extension

Annual certification of Quality Milk

Regular proof of absence of defined zoonotic and impact-full animal infections (testing)

Regular proof of absence of residuals of antimicrobials through testing

Applying practices focused on preventive management (biosecurity, feeding, hygiene)



Higher and more constant milk quality

Higher guaranteed price

Dairy processing

Premium products