Group Exercise Part 1: Backcasting approach – establishment of an FMD-free zone (Official Disease Status-related exercise)



PVS-PPP Targeted Support for FMD-free zone establishment

15 September 2026

World Organisation for Animal Health
Founded as OIE



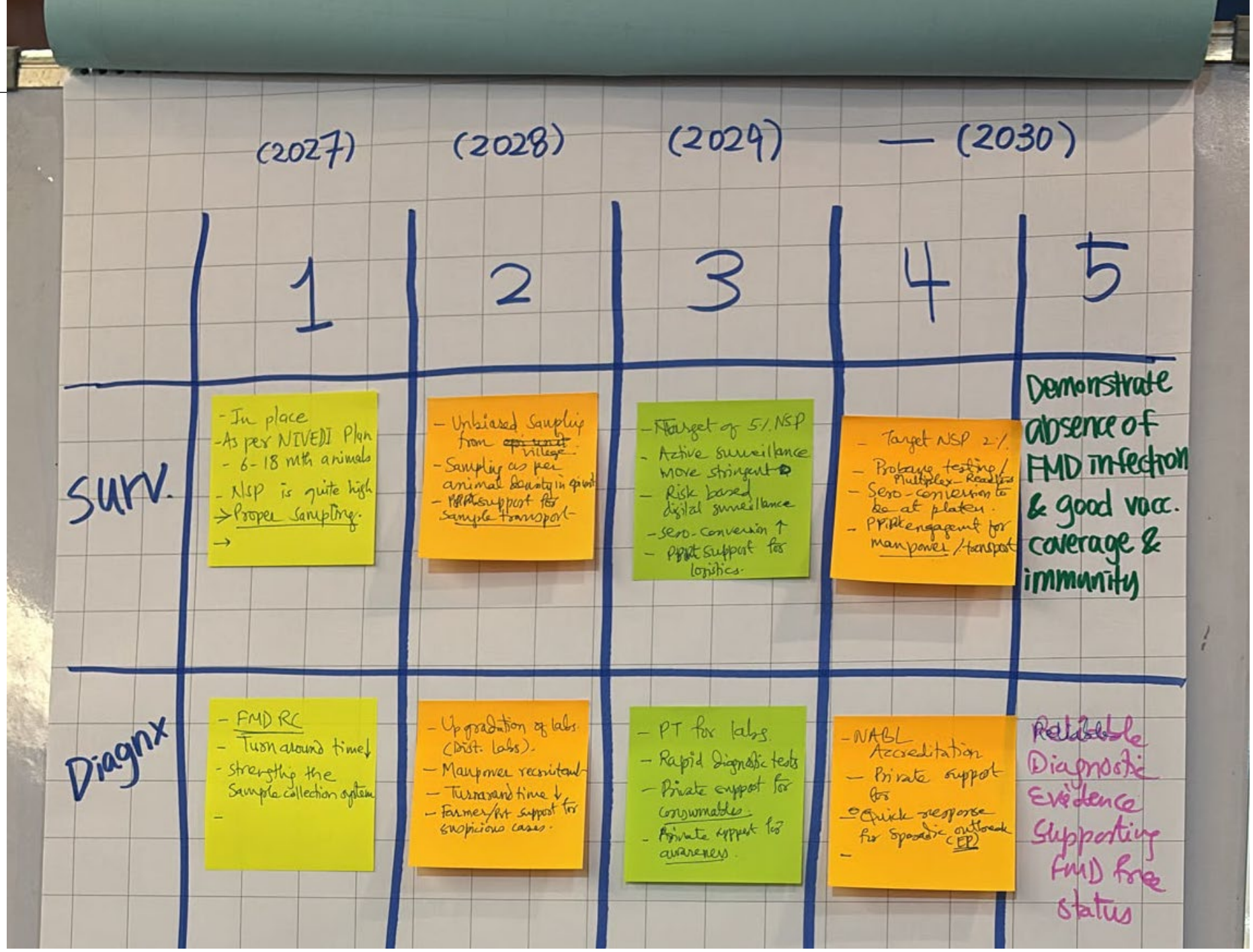
Group 1: PUNJAB, HARYANA, UTTARAKHAND, UTTAR PRADESH , NRDDL, IVRI
Dr Sujit Nayak, Dr Aruna Sharma, Dr Swaroop, NDDB-1

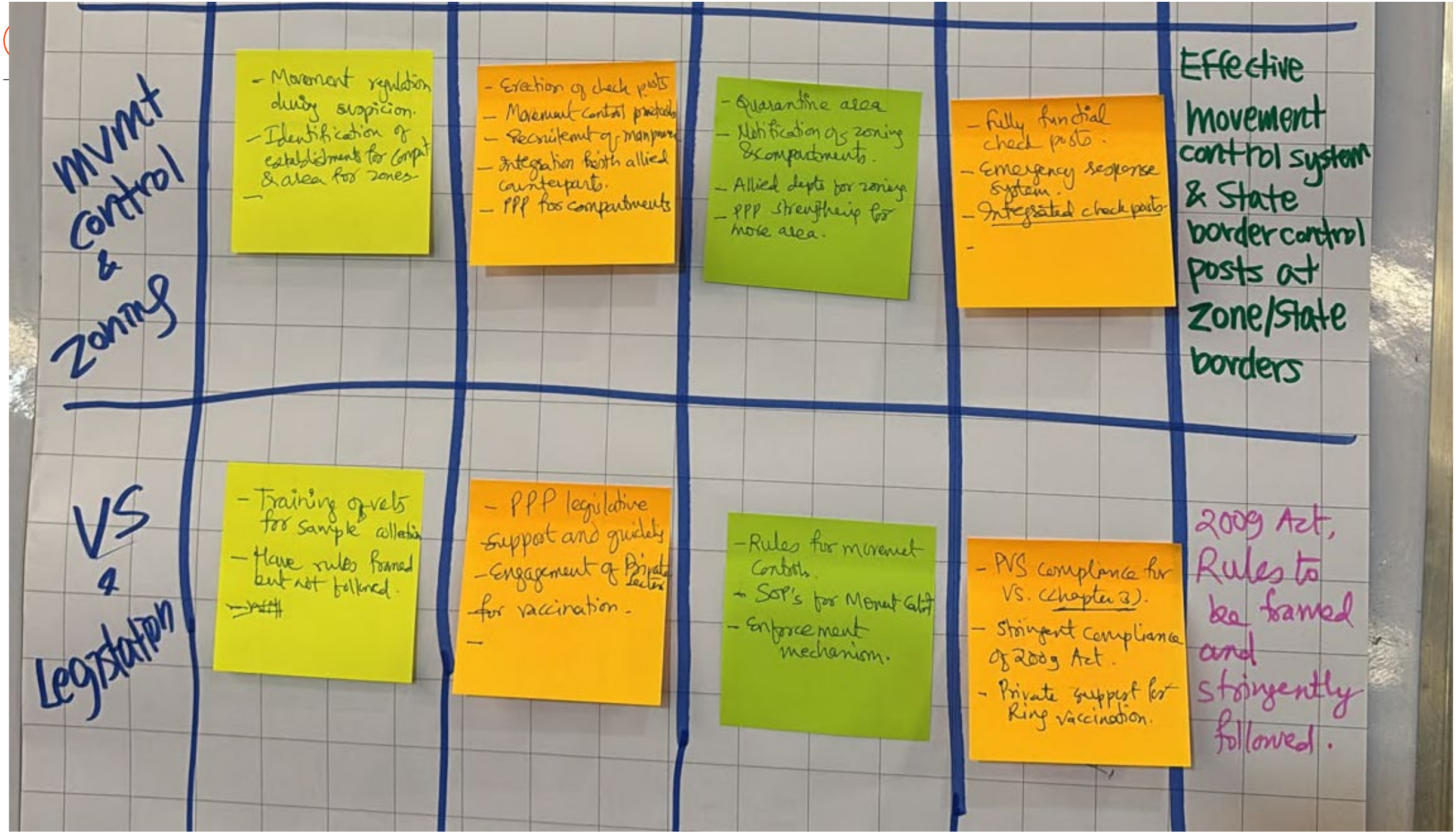
Group 2: GUJARAT, MAHARASHTRA, MADHYA PRADESH, WRDDL,
Dr Vijay Kumar, Dr Sandeep Singh, Dr Adhiraj Mishra, Brilliant -1 , ADB,NDDB -2,3

Group 3: TELENGANA, KARNATAKA, BIHAR, ERDDL, SRDDL
Dr Sushil Singh, Dr Gaurav Singh, Fair Export , IIL , World Bank, NDDB-4, Dr Vikas Gupta , AQCS Delhi,

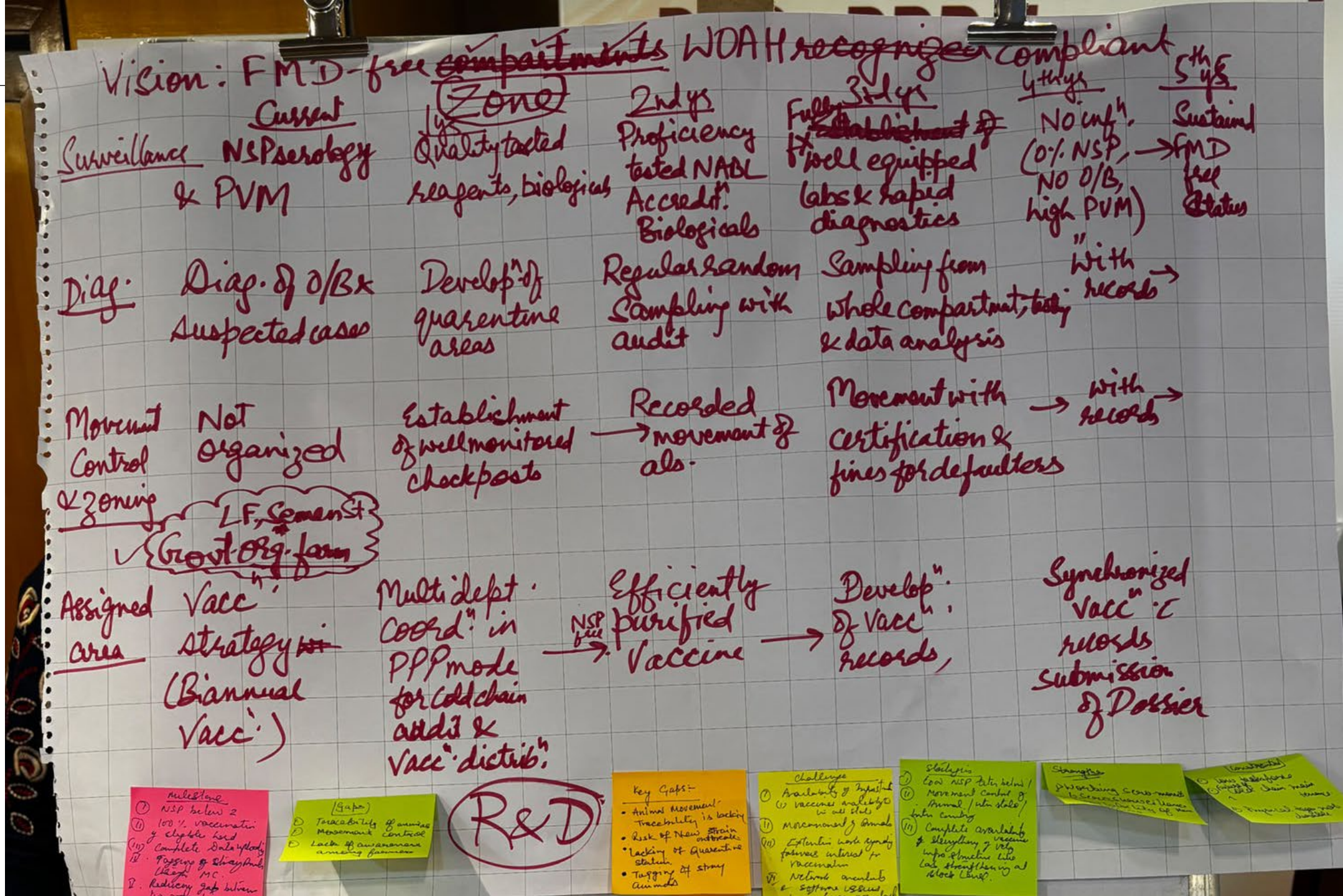
Group 4: ANDHRA PRADESH, TAMIL NADU, ASSAM
Dr Ashwini Singh, Dr Nihar Mohanty, Dr Vivek Saroj, Brilliant -2 , FAO ,NDDB-5

Group 1

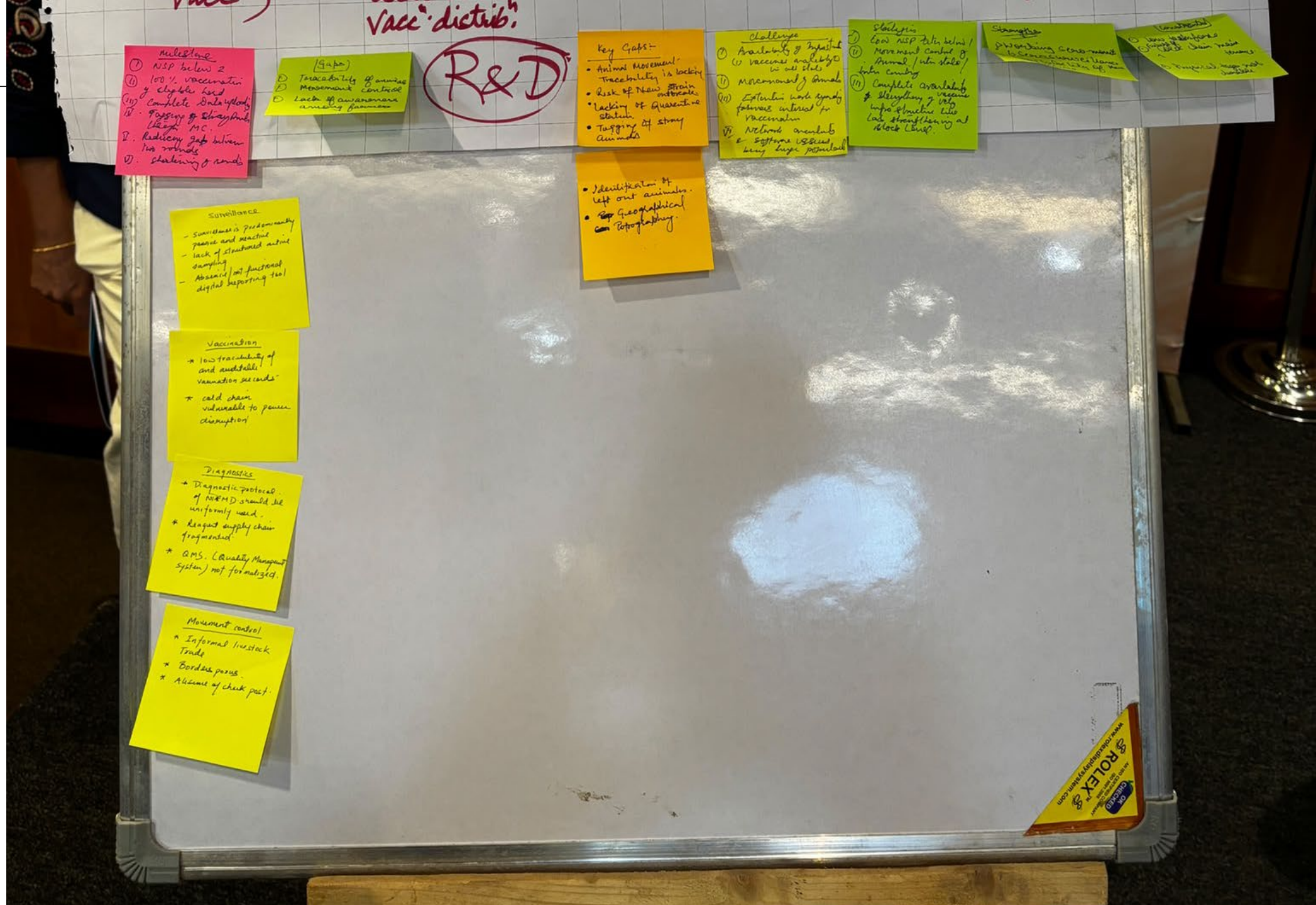

(2027)
(2028)
(2029)
— (2030)
1
2
3
4
5
Surv.
- In place
- As per NIVEDI Plan
- 6-18 mth animals
- NSP is quite high
→ Proper sampling.
→
- Unbiased sampling from ~~epi unit~~ village
- Sampling as per animal density in epi unit
- PPPt support for sample transport
- Target of 5% NSP
- Active surveillance more stringent
- Risk based digital surveillance
- Sero-conversion ↑
- PPPt support for logistics.
- Target NSP 2%
- Probang testing / Multiplex - Readers
- Sero-conversion to be at platen.
- PPPt engagement for manpower / transport
Demonstrate absence of FMD infection & good vacc. coverage & immunity
Diagnx
- FMD RC
- Turn around time ↓
- Strengthing the sample collection system
-
- Upgradation of labs (Dist. labs).
- Manpower recruitment
- Turnaround time ↓
- Farmer/Pvt support for suspicious cases.
- PT for labs
- Rapid diagnostic tests
- Private support for consumables.
- Private support for awareness.
- NABL Accreditation
- Private support for
- Quick response for sporadic outbreak (EP)
-
Reliable Diagnostic Evidence Supporting FMD free status


MVMT control & zoning
- Movement regulation during suspicion.
- Identification of establishments for compt & area for zones.
-
- Erection of check posts
- Movement control protocols
- Recruitment of manpower
- Integration with allied counterparts.
- PPP for compartments
- Quarantine area
- Notification of zoning & compartments.
- Allied depts for zoning
- PPP strengthening for more area.
- Fully functial check posts.
- Emergency response system.
- Integrated check posts.
-
Effective movement control system & State border control posts at Zone/State borders
VS & Legislation
- Training of vets for sample collection
- Have rules framed but not followed.
- PPP legislative support and guidelines
- Engagement of Private sector for vaccination.
-
- Rules for movement Controls.
- SOP's for Movement Control
- Enforcement mechanism.
- PVS compliance for VS. (Chapter 3).
- Stringent compliance of 2009 Act.
- Private support for Ring vaccination.
2009 Act, Rules to be framed and stringently followed.

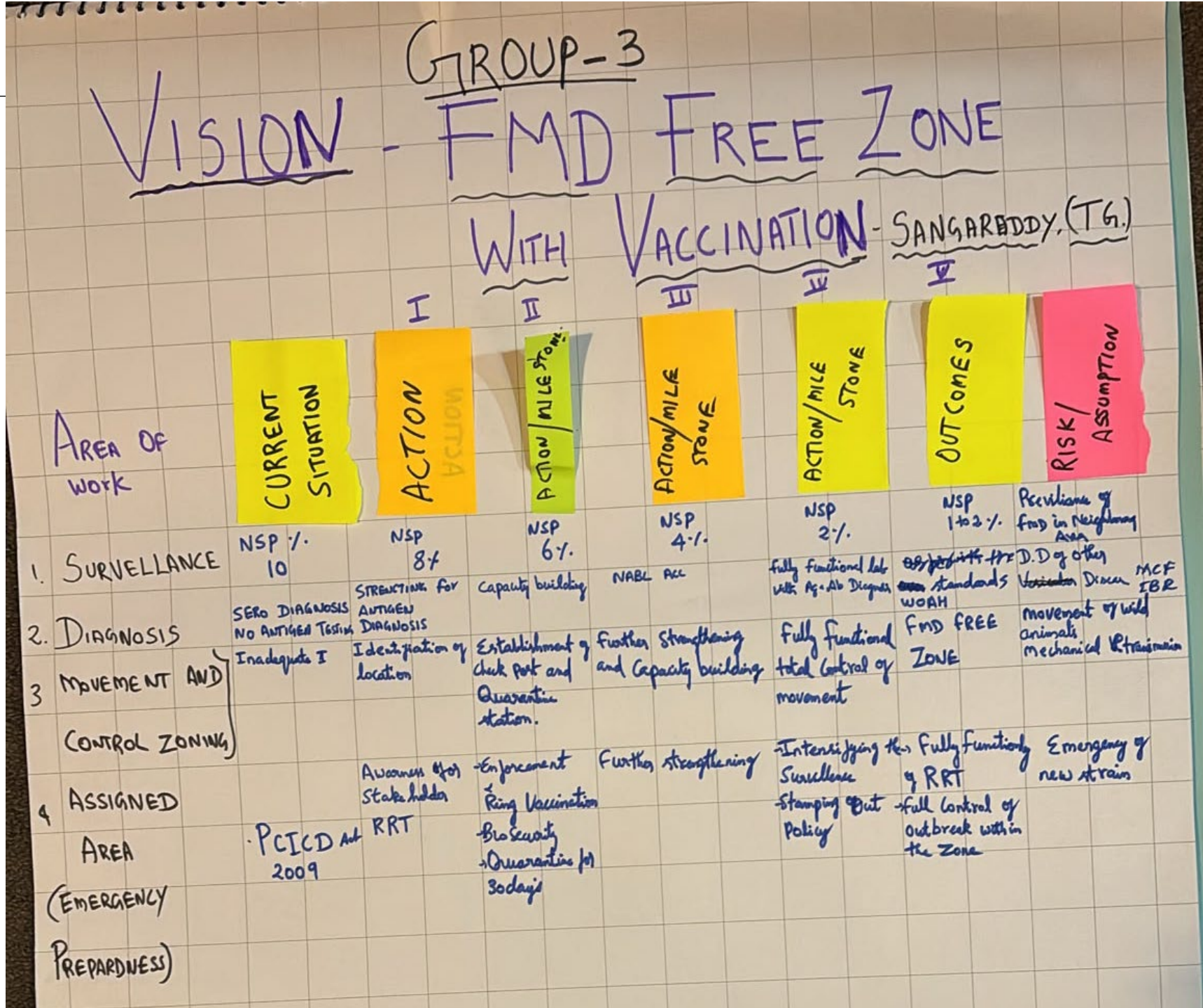
Group 2


Vision: FMD-free compartments WOAH recognized compliant
Zone
Current
1yr
2nd yr
3rd yr
4th yr
5th yr
Surveillance
NSP serology & PVM
Quality tested reagents, biologicals
Proficiency tested NABL Accredit. Biologicals
Fully fx well equipped labs & rapid diagnostics
No infn. (0% NSP, NO O/B, high PVM)
Sustained FMD free Status
Diag.
Diag. of O/B & suspected cases
Develop. of quarentine areas
Regular random sampling with audit
Sampling from whole compartment, testing & data analysis
with records
Movement Control & zoning
Not organized
Establishment of well monitored checkposts
Recorded movement of als.
Movement with certification & fines for defaulters
with records
LF, Semen St
Govt. Org. farm
Assigned area
Vacc. strategy (Biannual Vacc.)
Multi dept. coord. in PPP mode for cold chain audit & Vacc. distrib.
NSP free
Efficiently purified Vaccine
Develop. of Vacc. records,
Synchronized Vacc. records submission of Dossier
R&D
Milestone
Gaps
Key Gaps:-
Challenge
Strategies
Strengths

Group 2


Vacc. distrib.
R&D
Milestone
Gaps
Key Gaps:-
Challenges
Strengths
Surveillance
Vaccination
Diagnostics
Movement control
Identification of left out animals.
Geographical
Topography.

Group 3


GROUP-3
VISION - FMD FREE ZONE
WITH VACCINATION - SANGAREDDY. (TG.)
AREA OF WORK
CURRENT SITUATION
ACTION
ACTION/MILE STONE
ACTION/MILE STONE
ACTION/MILE STONE
OUTCOMES
RISK/ ASSUMPTION
I
II
III
IV
V
1. SURVELLANCE
2. DIAGNOSIS
3 MOVEMENT AND CONTROL ZONING
4 ASSIGNED AREA (EMERGENCY PREPARDNESS)
NSP 1%
10
NSP 8%
NSP 6%.
NSP 4%.
NSP 2%.
NSP 1 to 2%.
Prevelance of FMD in Neighbouring Area
SERO DIAGNOSIS
NO ANTIGEN TESTING
Inadequate I
STRENGTHING for ANTIGEN DIAGNOSIS
Identification of location
Capacity building
NABL Acc
Fully functional lab with Ag-Ab Diagnosis
WOAH standards
D.D of other Diseases
MCF
IBR
movement of wild animals mechanical transmission
Establishment of check post and Quarantine station.
Further Strengthening and Capacity building
Fully functional total Control of movement
FMD FREE ZONE
Awareness for Stakeholders
-Enforcement
-Ring Vaccination
-Bio Security
-Quarantine for 30days
Further strengthening
-Intensifying the Surveillance
-Stamping Out Policy
Fully functional of RRT
-full control of outbreak within the Zone
Emergency of new strain
PCICD Act 2009
RRT

Group 4

Group - 4

Step-1:

Vision: To establish and maintain 5 FMD free Compartments with vaccination for export of Germplasm and L.S products

Step-2:

Objective:

a) Surveillance - DIVA NSP
   - 5th year - Below 2%

b) Lab Systems/Diagnosis
   - 5th Y - NABL Accredated State Lab.
     Trained manpower.
     Continuous avail. of ELISA Kits.
     Quality Assurance by Prof. testing

c) Movement Control
   - 5th Y - Digital isation & monitoring of animal movements - Entry & Exit points
   - Muzzle imprint for traceability

d) Biosecurity:
   - 5th Y - Complete Perimeter fencing
     Training for Stakeholders
     Visitor Control

Y-1 Y-2 Y-3 Y- Y-5 risks

Surveil Testing 10% 9% 8% 5% 4% <2% Under reporting

→ By Use of highly purified / NSP free FMDVac.
→ >95% Coverage
→ Follow up of Reactors

New Strain emergence

Diagnosis

Lack of Kits & manpower | ↑sing man power | Training lab | Lab Strengthening | Proficiency Testing RRT for Hotspots | NABL Prof. testing | Approp. investign

Movement Control & Zoning

NDLM (DP) | C.P Streng Ident Entry & Exit points Road Access | C.P Streng | C.P Mandatory V.H.C for all Animals | C.P Integration of Local bodies & IT Support | Digitalisation of Ani. Movement

Biosecurity

Partial Complete Fencing & Foot path | Dedicated Quar & Isolation Buffer zone - Shandies, Wildlife | Completn. of Ani Ident in B.Z | NSP testing in B.F & Comp | Auditing & Submission of application | Perimeter Fencing, Visitor Control

Stakeholder engagement | Selection of Comp | Agreement | Training | Fund Management Investment | Imple.