



# 一例规模化猪场蓝耳混群感染处置 案例分析

Analysis of the Treatment of PRRS Mixed  
Infection in a Large Scale Pig Farm

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01

猪场背景信息

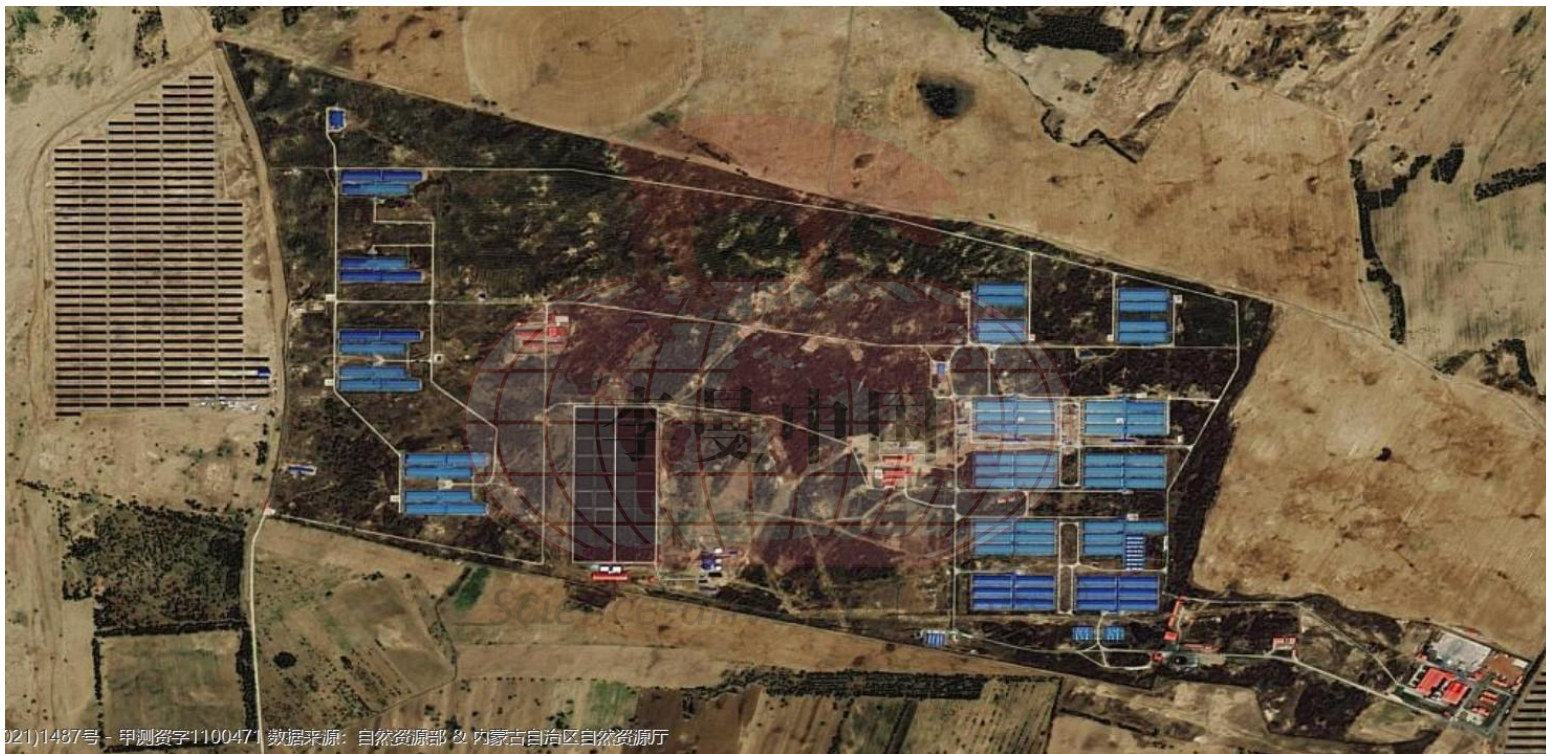
Background information of pig farm

李曼中国

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# 猪场背景信息

Background information of pig farm



021)1487号 - 甲测资字1100471 数据来源: 自然资源部 & 内蒙古自治区自然资源厅

# 猪场背景信息

## Background information of pig farm



猪场规模  
Scale of pig farm

20000头

20000 heads

01



猪场地址  
Pig farm address

内蒙古通辽

Tongliao, Inner  
Mongolia

02



猪群状况  
Pig herd status

8个母猪车间；  
21年母猪车间轮流爆发蓝耳

8 sow workshops;  
In 2021, the sow  
workshop took turns  
experiencing  
outbreaks of PRRS

03



防控措施  
Preventive and  
control  
measures

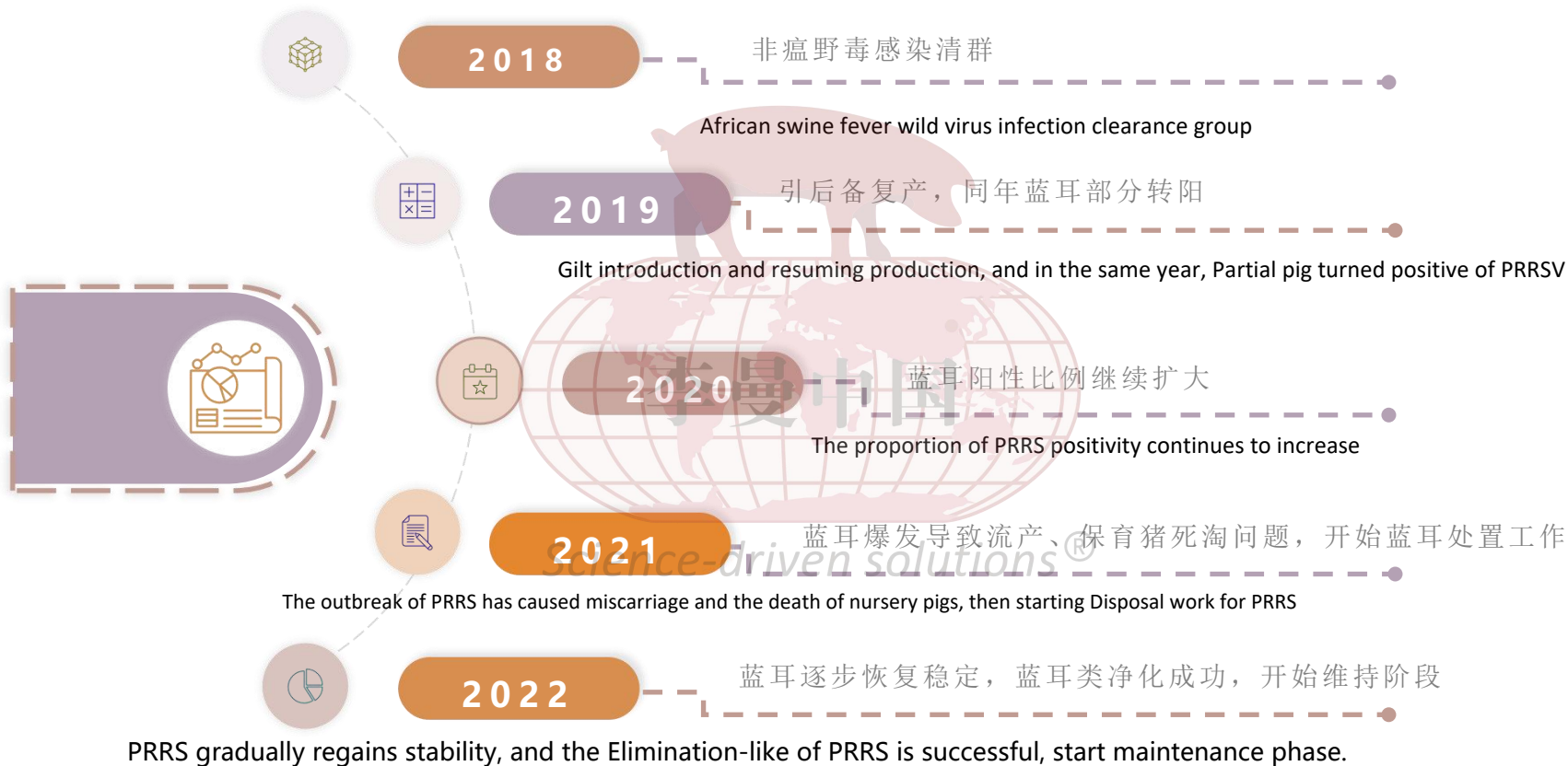
封群+淘汰、生物安全

Group  
closure+elimination  
, biosafety

04

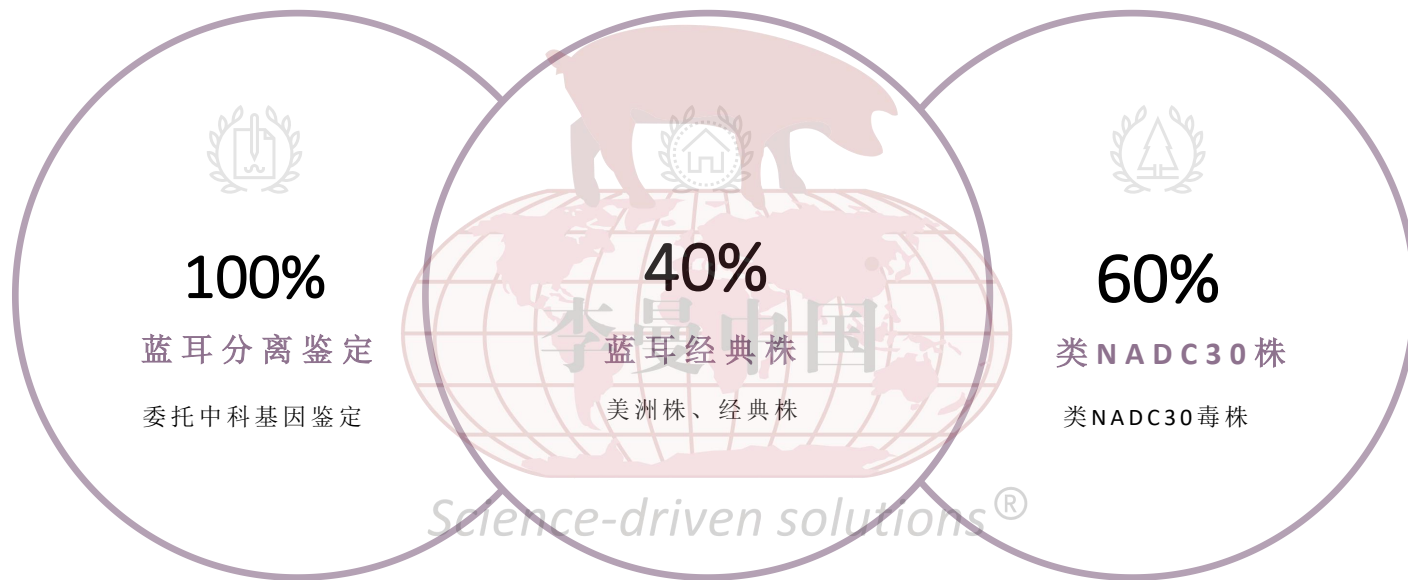
# 猪场蓝耳发病情况

## Incidence of PRRS in Pig Farm



# 猪场蓝耳毒株分离鉴定

Isolation and identification of PRRS virus strains in the pig farm



Isolation and Identification of PRRSV  
Zhongke Gene

PRRS Classical Strain, American Strain

NADC30 like strain

02

蓝耳病防控案例分析

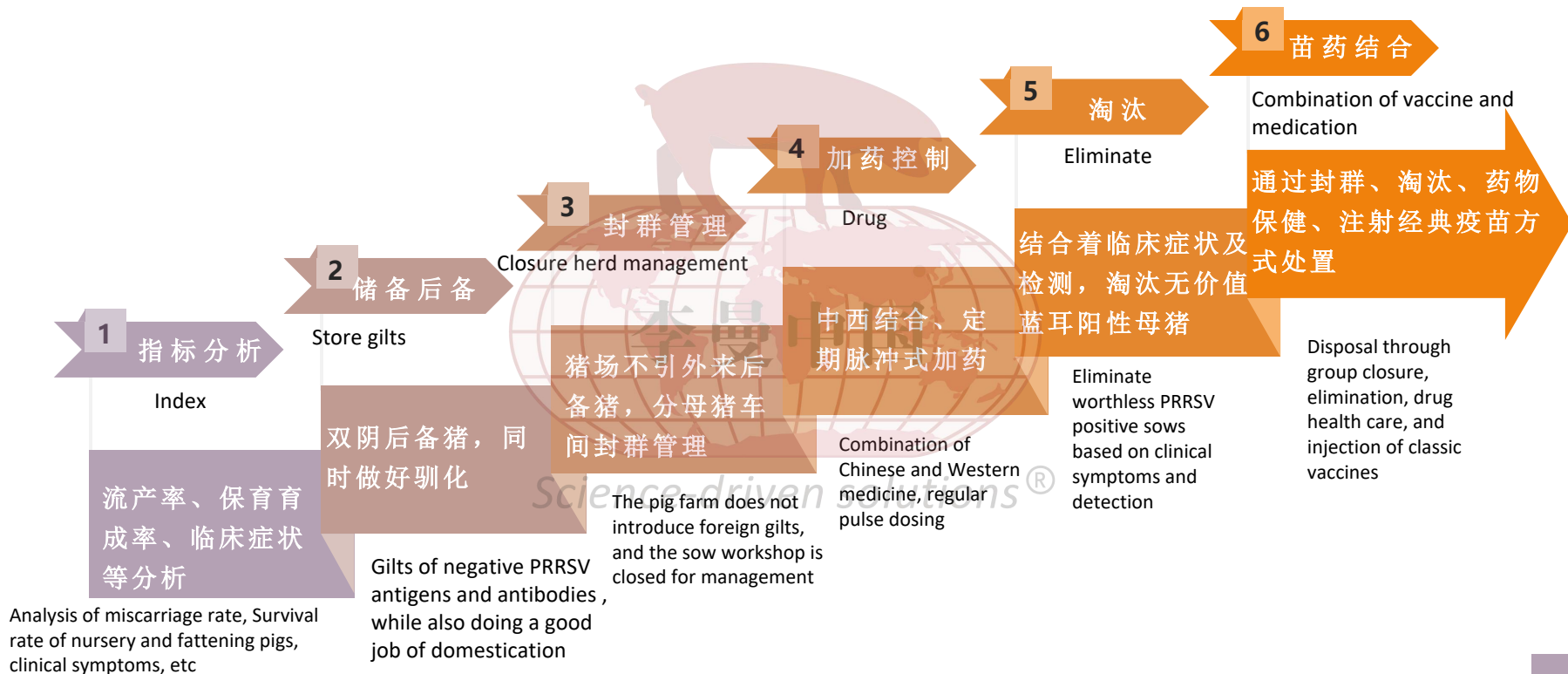
Case Analysis of PRRS Prevention and Control

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# 蓝耳封群处置技术路线

## Technical route for the disposal of closed groups with PRRS



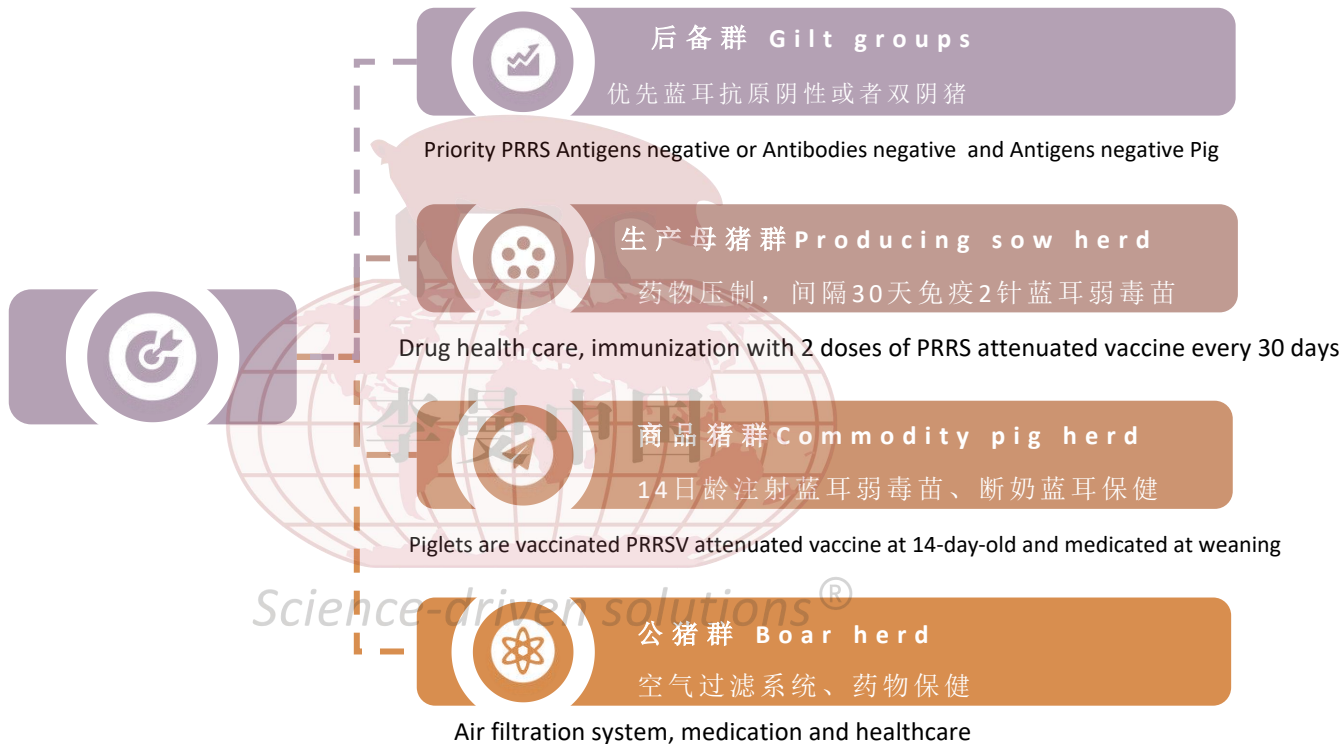


# 蓝耳封群处置过程

## Process of PRRS Sealing Group Disposal

### 蓝耳封群处置过程

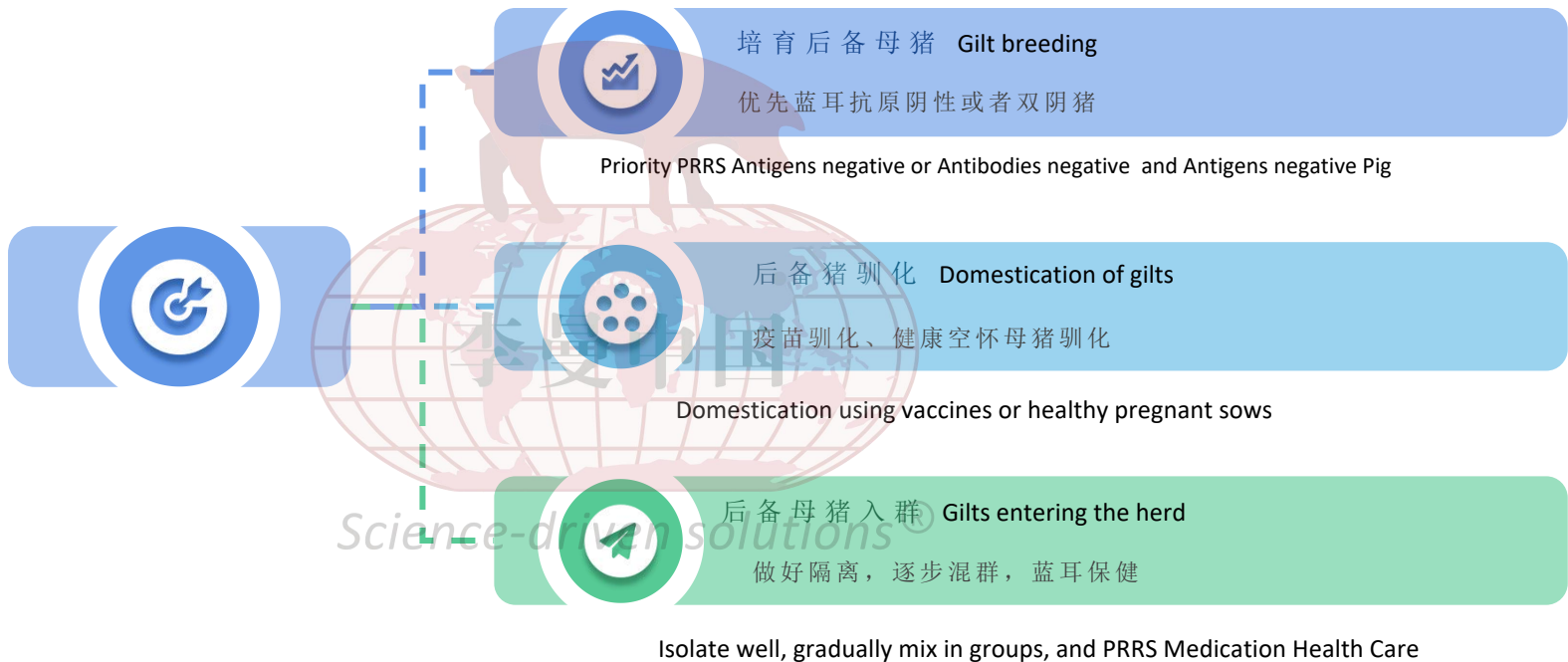
#### Process of PRRS Sealing Group Disposal



# 后备猪蓝耳处置

PRRS disposal process of reserve pig

## 后备猪蓝耳处置过程 PRRS disposal process of reserve pig



# 生产母猪蓝耳处置过程

## Process of handling PRRS in sows during production



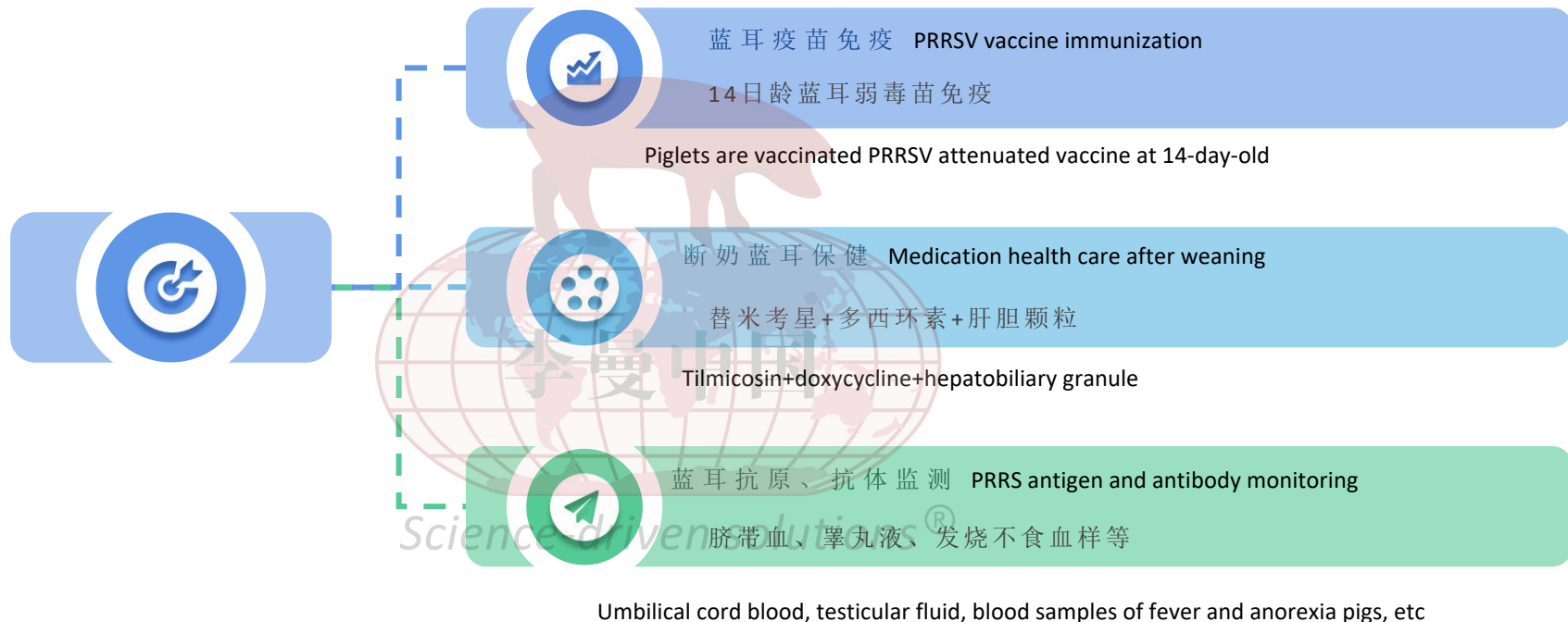
Umbilical cord blood, testicular fluid, blood samples from aborted sows, blood samples from fever without eating, etc

蓝耳稳定后，生产母猪群蓝耳疫苗每年普免3次！

After stabilizing the PRRS , the PRRSV vaccine for sow herds will be generally exempted three times per year!

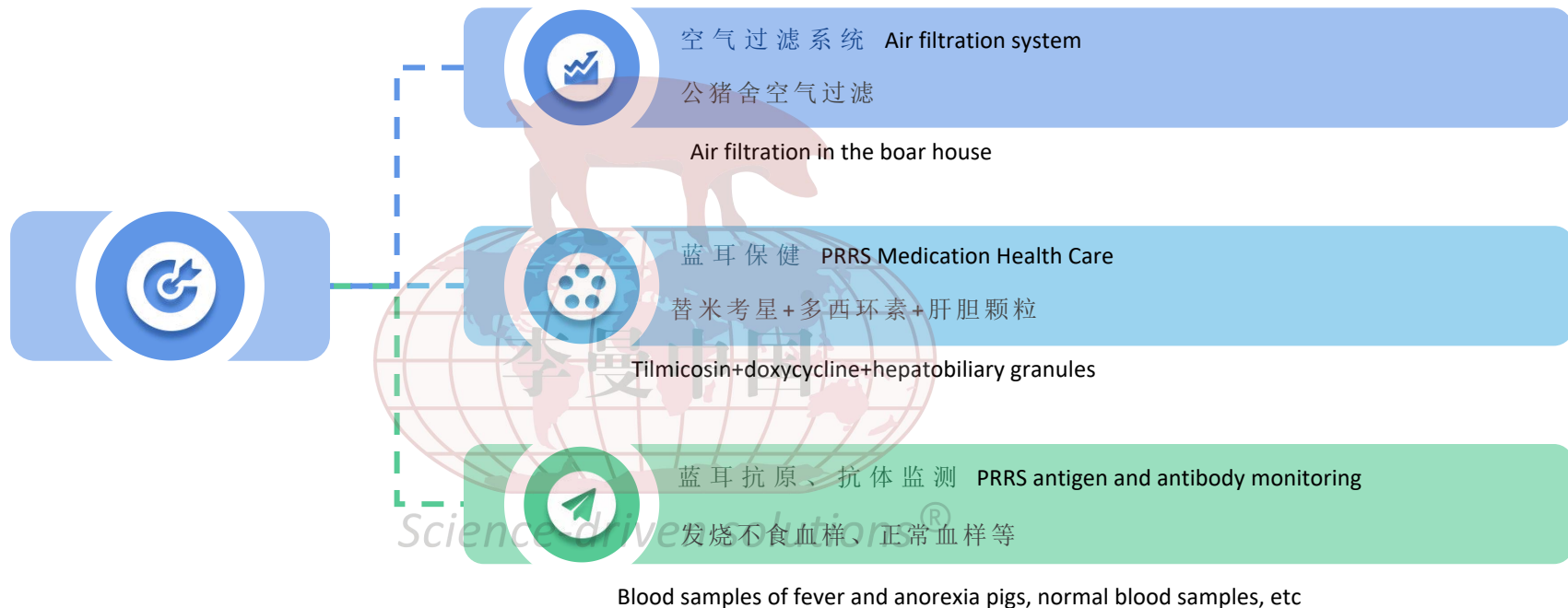
# 商品猪蓝耳处置过程

## Disposal process of PRRS for commercial pig



# 公猪蓝耳处置过程

## The disposal process of PRRS in boars



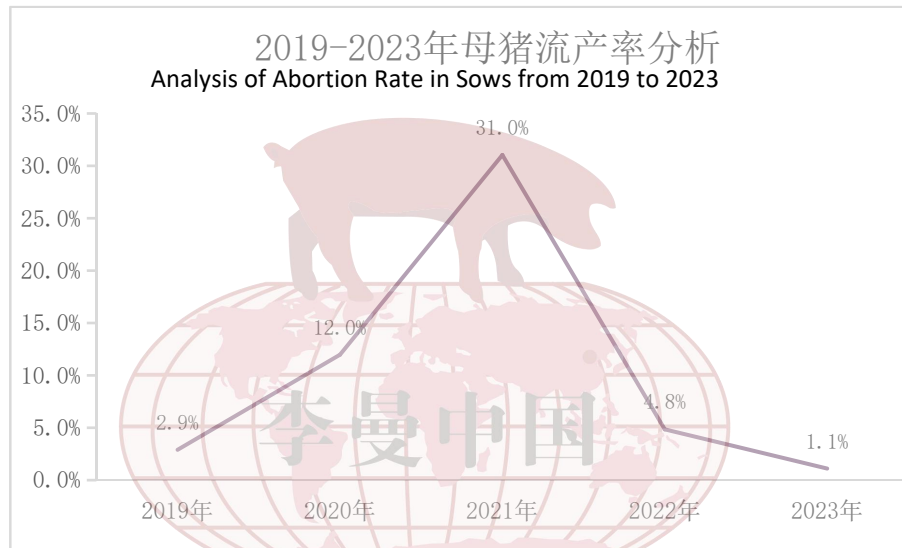
# 生物安全工作 Biosafety work

## 生物安全工作 Biosafety work



# 母猪车间生产数据分析-母猪流产率

## Analysis of Production Data in Sow Workshop - Abortion Rate of Sows



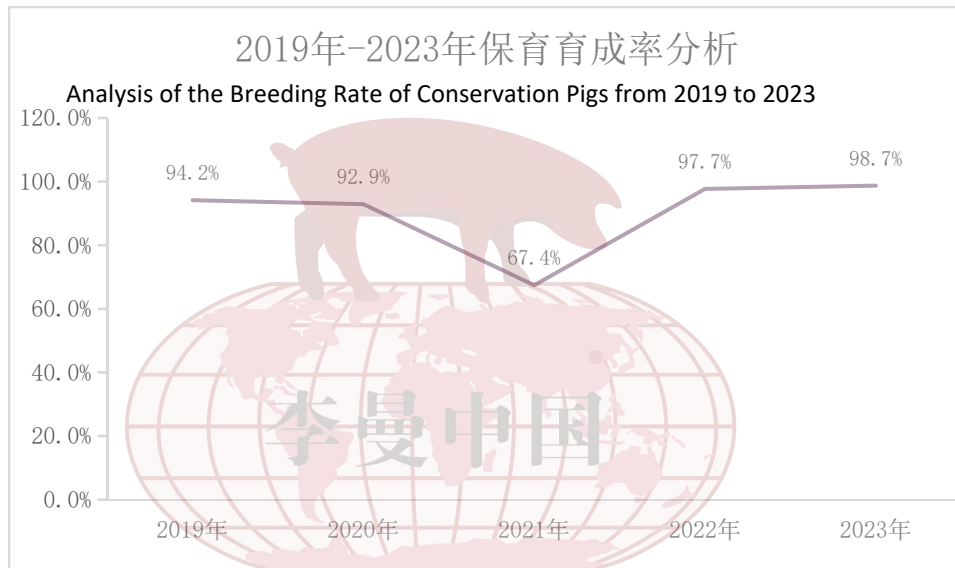
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2019年-2021年母猪流产率升高并达到高峰，2021-2023年开始下降，并恢复至正常水平

The miscarriage rate of sows increased and reached its peak from 2019 to 2021, and began to decline from 2021 to 2023, returning to normal levels

# 母猪车间生产数据分析-保育育成率

## Production Data Analysis of Sow Workshop - Survival rate of nursery and fattening pigs



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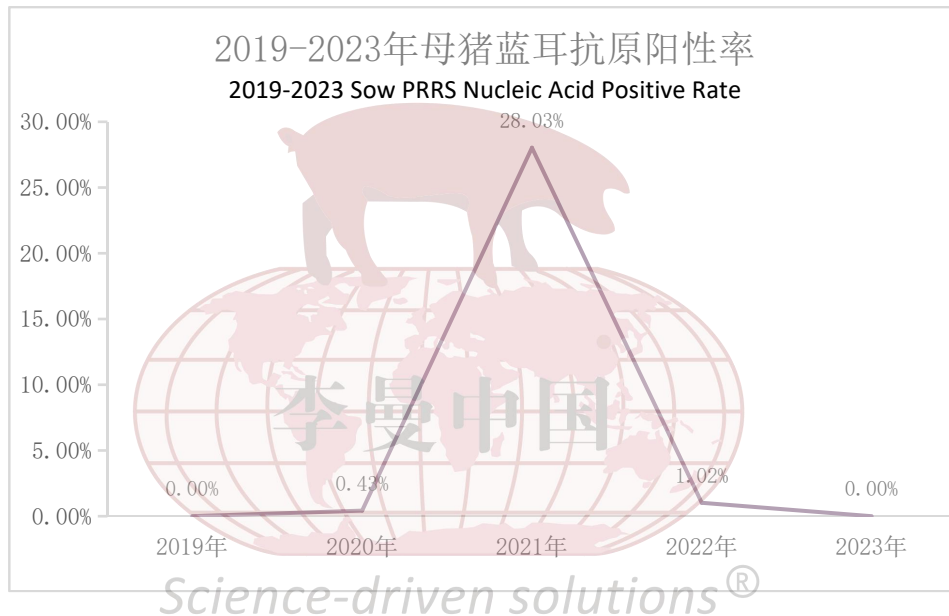
2019年-2021年保育育成率下降，2021-2023年开始上升，并恢复至正常水平

From 2019 to 2021, Survival rate of nursery and fattening pigs declined, and starting to rise from 2021 to 2023 and returning to normal levels



# 母猪车间检测数据分析-蓝耳核酸阳性率

## Analysis of Test Data in Sow Workshop - PRRS Nucleic Acid Positive Rate

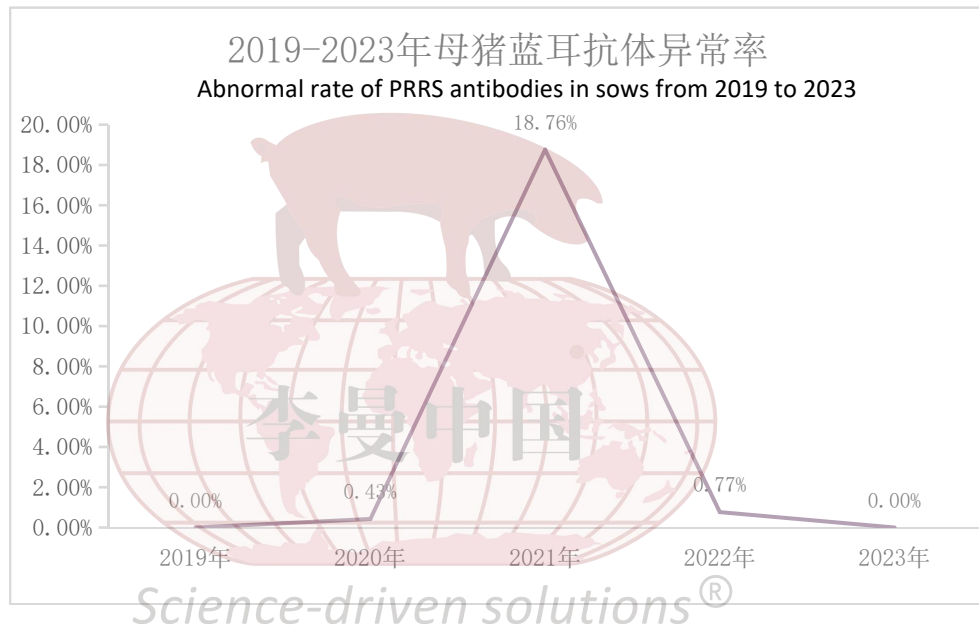


2019年-2021年母猪蓝耳抗原阳性率升高并达到高峰，2021-2023年开始下降，23年抗原阴性

The positive rate of PRRS antigen in sows increased and reached a peak from 2019 to 2021, and began to decline from 2021 to 2023, with antigen negative results in 2023

# 母猪车间检测数据分析-蓝耳抗体异常率

## Analysis of Test Data in Sow Workshop - PRRS Antibody Abnormality Rate

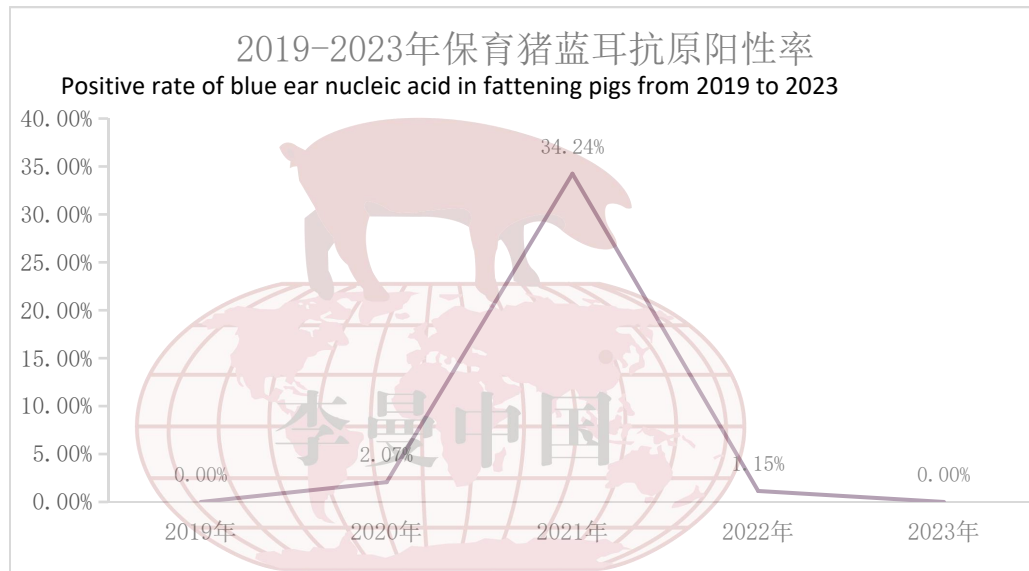


2019年-2021年母猪蓝耳抗体异常率升高并达到高峰，2021-2023年开始下降，23年无异常抗体

The rate of PRRS abnormal antibodies in sows increased and reached a peak from 2019 to 2021, and began to decline from 2021 to 2023.  
There were no abnormal antibodies in 2023.

# 育肥车间检测数据分析-蓝耳核酸阳性率

## Analysis of Testing Data in Pig Finishing Workshop - PRRS Nucleic Acid Positive Rate



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2019年-2021年保育猪蓝耳抗原阳性率升高并达到高峰，2021-2023年开始下降，23年抗原阴性

The positive rate of PRRS antigen in nursery pig increased and reached a peak from 2019 to 2021, and began to decline from 2021 to 2023, with antigen negative results in 2023.

# 蓝耳封群处置小结

## Summary of PRRS Closed Group Disposal

- ✓ 蓝耳检测分型，根据测序结果选择合适的疫苗；

Detection and typing of PRRSV, selecting appropriate vaccines based on sequencing results

- ✓ 母猪全群蓝耳保健，然后间隔1个月注射两次蓝耳弱毒苗；

Medication for health care of Sow herd, followed by two injections of PRRSV attenuated vaccine one month

- ✓ 商品猪14日龄蓝耳弱苗+断奶蓝耳保健；

Piglets are vaccinated PRRSV attenuated vaccine at 14-day-old+Medication health care after weaning

- ✓ 公猪群空气过滤+蓝耳保健；

Boar herd: air filtration+ medicine health care of PRRS

- ✓ 培育充足后备猪群，做好驯化及入群工作；

Cultivate sufficient gilts, and do a good job in domestication and herd introduction

- ✓ 抗原、抗体定期监测；

Regular monitoring of antigens and antibodies

- ✓ 做好生物安全工作；

Enhancing biosafety work

- ✓ 封群 Closed population

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03

蓝耳病防控思考与总结

Reflection and Summary on the Prevention and Control of PRRS



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# 蓝耳病防控思考与总结

## Reflection and Summary on the Prevention and Control of PRRS



## 蓝耳防控-定期抗原、抗体监测

### PRRS Prevention and Control - Regular Antigen and Antibody Monitoring

采样群体	样本类型	检测项目
母猪	血样、脐带血	抗原
哺乳仔猪	血样、睾丸液	抗原
断奶仔猪	唾液、血样	抗原
保育仔猪	血样	抗原
育肥猪	唾液	抗原
采精公猪	血样/精液	抗原
查情公猪	血样	抗原

Sampling group	Sample type	surveillance project
Sow	Blood samples, and umbilical cord blood	antigen
Suckling pig	Blood samples, and testicular fluid	antigen
Weanling pig	Saliva, blood samples	antigen
Conservation piglets	Blood samples	antigen
Fattening pig	oral fluid	antigen
Spermatic boar	Blood sample /seminal fluid	antigen
Detective boar	oral fluid	antigen

母猪、商品猪血样定期检测蓝耳抗体：蓝耳抗体**S/P值>2.5**属于异常（关注异常率）

Regular detection of PRRS antibodies in blood samples of sows and commercial pigs: PRRS antibody S/P value>2.5 is considered abnormal (pay attention to abnormal rate)

