Confidential

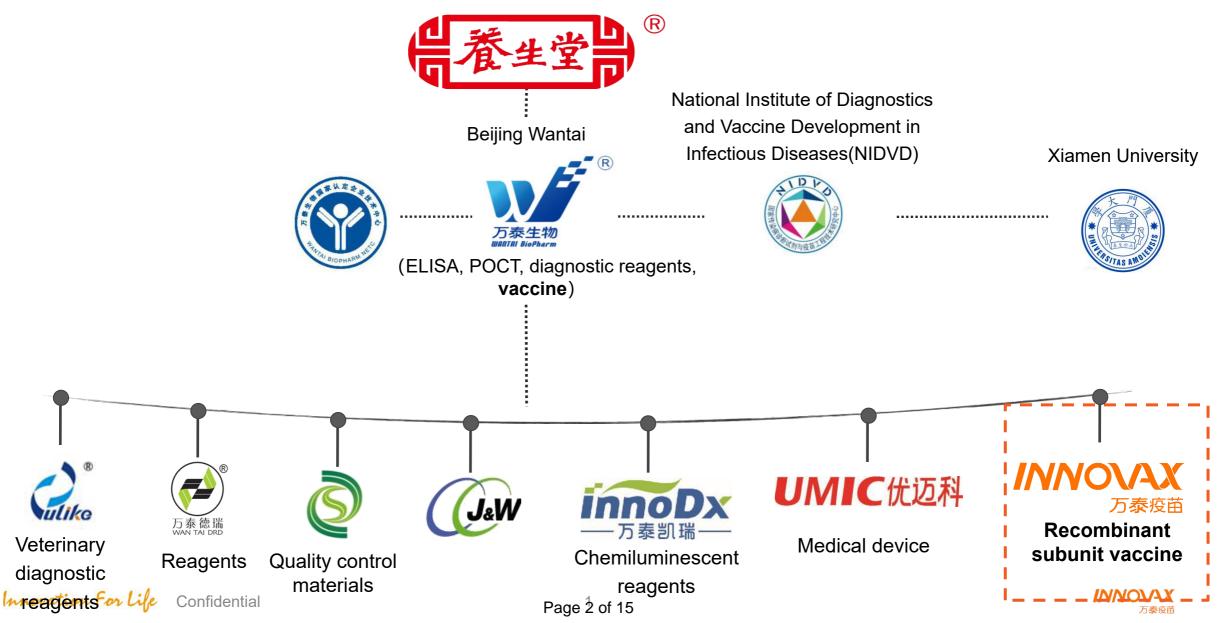


Warehouse Management System Project



Group structure and stakeholders

YangShengTang Group (YST)



Xiamen Innovax is the wholly owned subsidiary of Beijing Wantai. It is the only vaccine arm of YST



Innovax is dedicated to provide high-quantity and affordable innovative vaccine for people in need to combat infectious disease.

Innovation For Life Confidential

Page 3 of 15



Products



Hecolin[®]

- Recombinant Hepatitis E Vaccine (*Escherichia Coli*)
- Licensed in 2012
- First vaccine for Hepatitis E worldwide.

Cecolin[®]

Recombinant Human Papillomavirus Bivalent (Types 16,18) Vaccine

(Escherichia coli)

- Licensed in 2019
- China's first domestic HPV vaccine
- China's first WHO PQ receiving domestic HPV vaccine





Pipelines

Vaccine		Development stage					
		R&D	IND	Ph1	Ph2	Ph3	BLA
Cecolin®(HPV2v vaccine)							
Hecolin [®] (HEV vaccine)							
HPV9v vaccine							
Varicella vaccine (V-Oka)							
Influenza virus vector COVID-19 vaccine for intrar	asal spray						
2nd generation varicella vaccine(VZV-7D)							
20-valent PCV							
Recombinant COVID-19 vaccine							
JADE (HPV vaccine)	do more feel better live longer						
Herpes zoster vaccine							
20-valent HPV vaccine							
Rotavirus vaccine	SANOFI 🎝						

Innovation For Life

Contents

- 01 Background
- 02 Objectives
- 03 Main actions
- 04 Costs
- 05 | Team composition
- 06 Current status
- 07 Current experience

Innovation For Life Confidential





Vaccine production is complex with a number of steps constituting the process flow including the reception of raw material through intermedia products to the vaccine dispatch.

Traceability is being applied to the packaging of vaccines are increasingly considered as the primary level, as recommended by the Vaccine Innovation Prioritization Strategy (VIPS). The premise here is to apply traceability into the production phases starting with the receipt of raw materials, to enable a fully integrated data availability from start to dispatch.

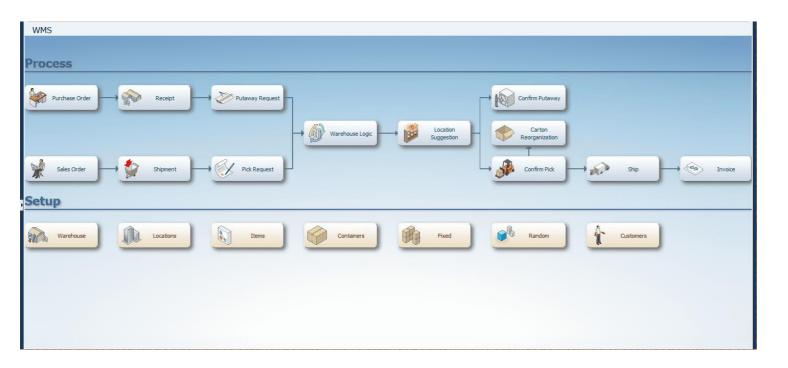
This principally focus on the integration of warehouse management systems, where the warehouse encompasses the complete production process. This is a production modernization approach resulting in increased efficiency in production operations and leading to cost savings.

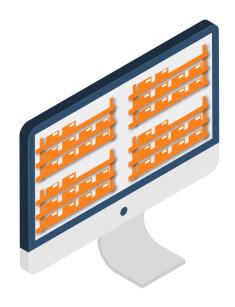
INNOVAX are now engaged in the first steps in the planning of improved warehouse management.



² Objective

To ensure the sustainable high quality and safety of vaccine through intelligent management, the WMS are establishing to monitor whole process of warehouse management from receipt of raw materials for antigen development through intermediate products to vaccine stockpiling and final dispatch.





Innovation For Life Confidential

Main Actions

Validation Preparation

- Project configuration development
- Formulate validation plan (VP)
- Formulate Function specification
- Formulate software design specification
- Formulate hardware design specification
- Formulate risk assessment result
- Formulate design qualification report

Q2 2022

Accpetance Test

- Install WMS system for try out.
- Formulate FAT protocol and specification, implement the protocol and formulate FAT report.
- Formulate SAT protocol ۰ and specification, implement the protocol and formulate SAT report.
- Formulate I/OQ ٠ protocol and specification, implement the protocol and formulate I/OQ report.

O3 2022

Document

- Conduct acceptance and formulate validation acceptance report.
- Formulate relevant • SOP, including warehouse management system for material and finished product.

O4 2022



O1 2022

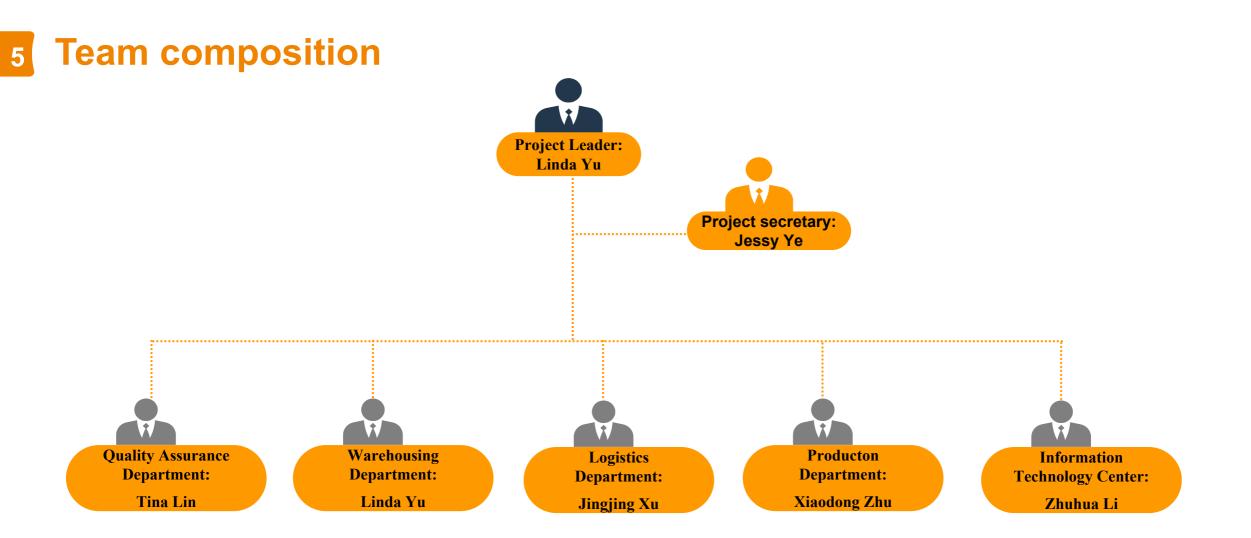
- Project
 - Formulate URS
 - Project establishment
 - Formulate quality and project plan (QPP)



Hardware	Software	Validation	Consultation	Totally
	\$190,000		\$30,000	\$220,000

Consultation company: Siemens AG



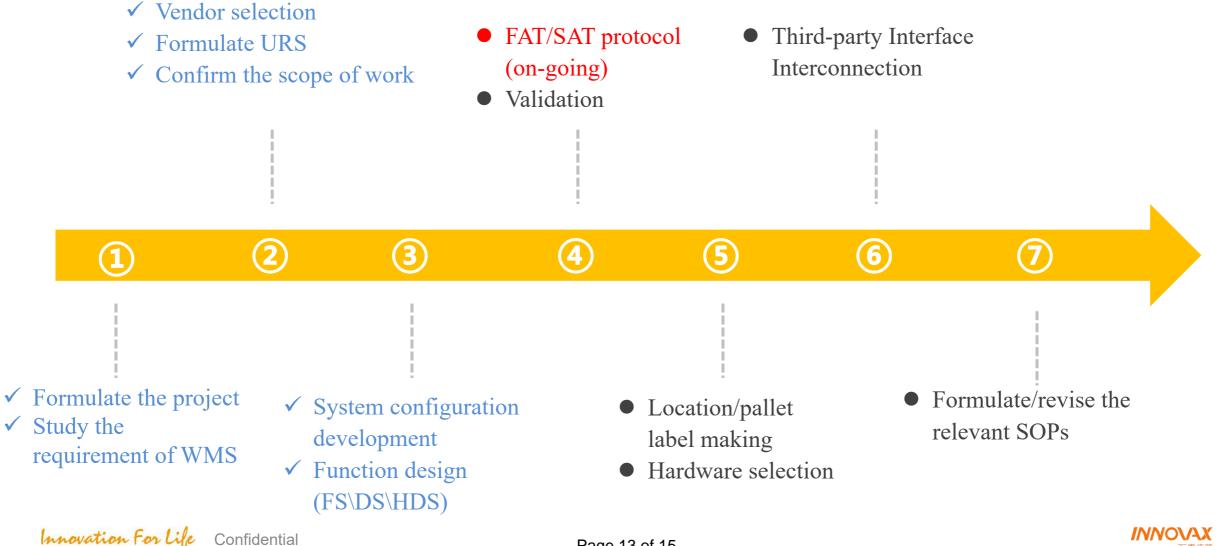




5 Team composition--roles and responsibilities

Role	Responsibilities	staffs
Project leader	Responsible for the overall project promotion, project planning, staffing planning, etcResponsible for the coordination of the relationship between functional departments involved in the projectResponsible for regular report on the project progressResponsible for the management of project team members	Linda Yu
Project secretary	Assist the project manager in project managementResponsible for project progress tracking and coordinationResponsible for organizing regular project management meetingsResponsible for archiving project management data	Jessy Ye
Team member	Assist in supplier selection and subsequent coordinationAssist in URS formulationReview technical protocolLead the implementation of WMS project hardware and software with supplierPlan system networkParticipate in system validation	Zhuhua Li
Team member	Lead the compliance auditAssist vendor to adjust and validate the system	Tina Lin
Team member	Participate in the system planing of material management moduleAssist in URSTeam memberformulationGuide SOP formulation for material management in warehouse managementsystemParticipate in system try-out and system acceptance	
Team member	Participate in the system planing of finished product management moduleAssist in URS formulationGuide SOP formulation for finished product management in warehouse management systemParticipate in system try-out and system acceptance	Jingjing Xu

Current Status



7 Current Experience & Challenges

Current experience:

- Project establishment
- Study the requirement of WMS
- Select the vendor (right person to do the right thing)
- Keep close contact with the vendor

Challenges:

- Influenced by the global COVID-19 epidemic, spare parts of the equipment are in short supply, may affect the project progress.
- Cross to another rebuildment of automatic warehouse which may delay the WMS establishment.



Making A Safe, Effective and Cost-Conscious Vaccine, Available for More Females Worldwide.....

– Xiamen Innovax Biotech

