



AFRICA IN THE GLOBAL VACCINE MANUFACTURING LANDSCAPE: ADVANCEMENTS



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Freetown, Sierra Leone

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Company Overview

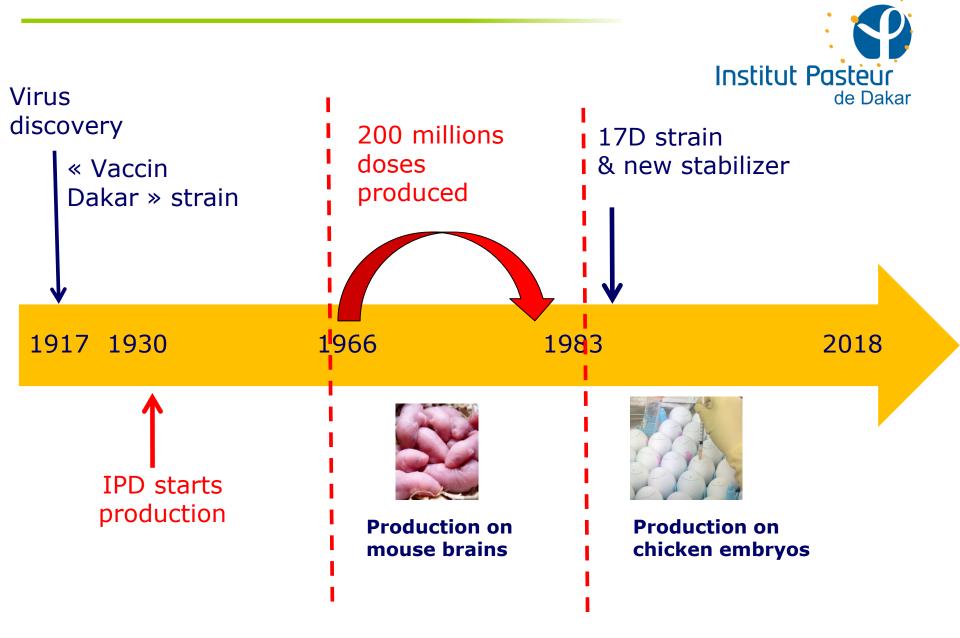


• EYE = Eliminating Yellow Fever Epidemics



- GAVI = Global Alliance for Vaccines
- ICG = International Coordinating Group for Vaccine Provision (MSF, IFRC, UNICEF and WHO)
- UNICEF

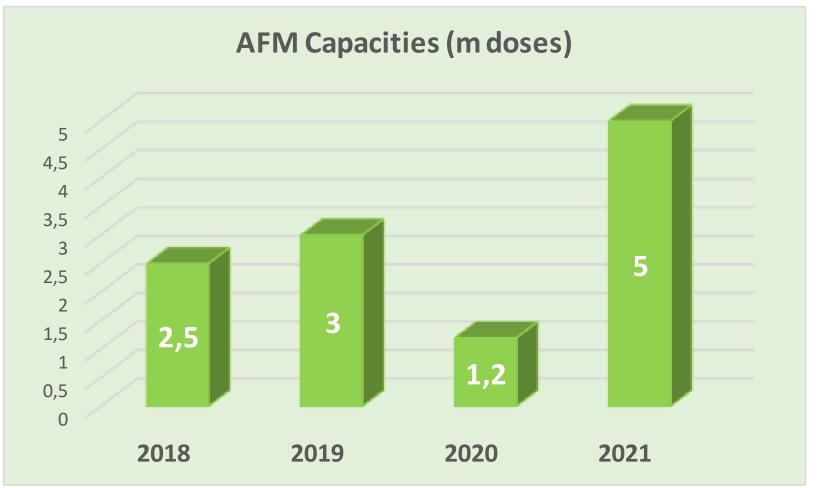
Company Overview



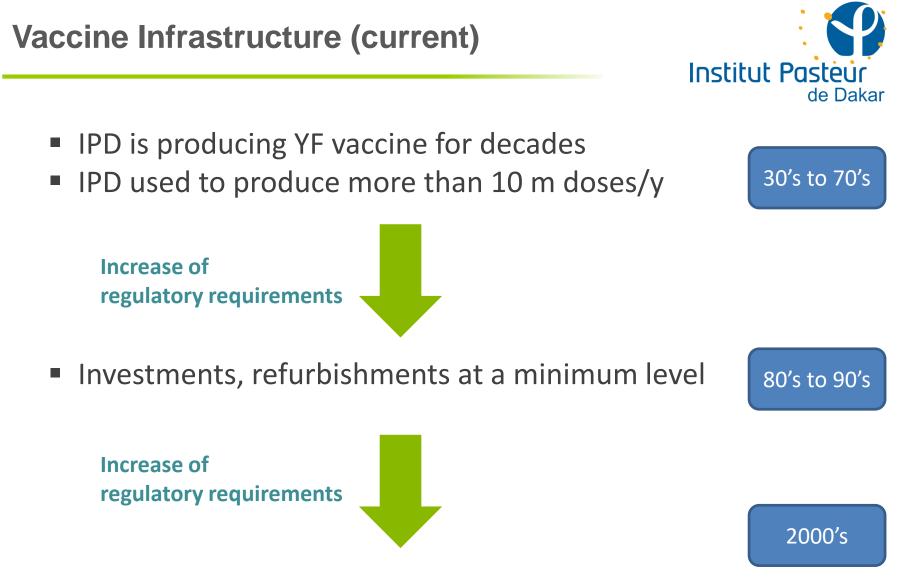


- IPD vision : Serving Africa Needs for vaccines of high quality, safety and efficacy
- IPD strategy :
 - Short term
 - Increase YF vaccine manufacturing to meet African needs
 - Improve business model
 - Mid-long term
 - Explore opportunities for other products





99% African market



Discussions start on AfricAmaril project (new facility)

Vaccine Infrastructure (current)

- Current facility objectives
 - Secure production until 2021
 - Optimise processes
 - Meet LTA volumes and additional quantities
 - Prepare transition to AFM
 - Ways to meet those targets
 - Get funds to secure the production
 - Improve the team with technical trainings & recruitments
 - Replace remaining aging equipment
 - Guide the changes





2010-2021

Vaccine Infrastructure (TERANGA project)

Focus on facility upgrade

2016-2017

Partial critical equipment replacements

Partial improvement in process & volumes







Vaccine Infrastructure (GARAP project)

Achieve critical equipment replacement

Increase bulk production capacity

2019-2020

Increase vaccine production up to 20% by 2021

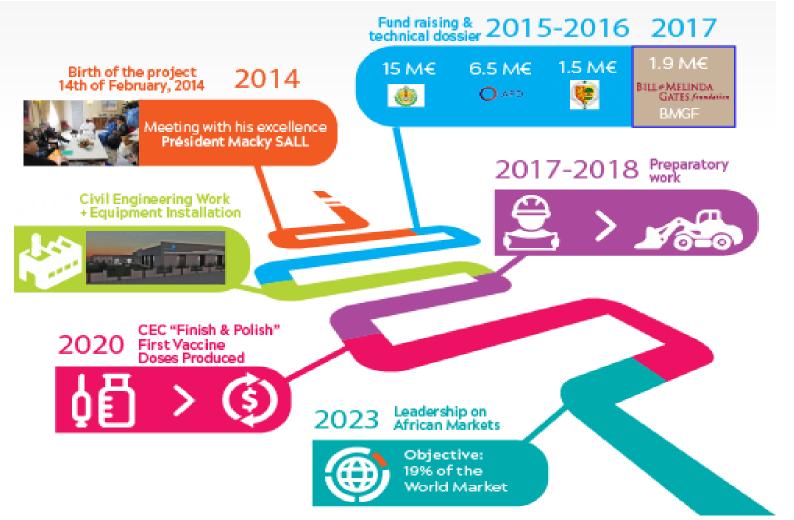


1,9 m US\$



Advances: AFM project leadtimes





Advances: Infrastructure





Advances: Infrastructure

- Filling line & freeze-driers : contract signed
- Predesign study completed
- First tenders launched
 - Foundations
 - Qual/validation for the line
 - Civil work
 - HVAC
- Foundations work
- Other works
- Commissioning

dec.2018 year 2019 march 2020







- Current facility
 - 35 people
 - Using IPD support services : calibration, logistics etc
- Targets from now to AFM
 - Hire people with vaccine/aseptic production experience
 - Diaspora Senegalese community (4)
 - QA & regulatory : done
 - Project manager : done
 - Validation
 - Maintenance
- Final team : about 75 people





African	<u>Group 1</u> : Companies with locally		<u>Group 2 :</u> Companies					
COMPANIES	produced and marketed products		at late stage of vaccine					
			development & manufacturing	Group 3 : Companies at preliminary planning of vaccine development				
				<u></u>				
	Institut Pasteur	Vacsera	Biovac	Institut	Institut Pasteur	Institut Pasteur	EPHI	Biovaccines
	Dakar	(Egypt)	South Africa)	Pasteur	(Morocco)	(Tunisia)	(Ethiopia)	(Nigeria)
	(Sénégal)			(Algeria)				
Level 1 : Import								
for distribution								
Level 2: Packaging							I	1
and Labeling								
Level 3: Product							1	l i
manufacturing								
(fill & finish)								
Level 4: API								
manufacturing								
Level 5: Research								
and Development								

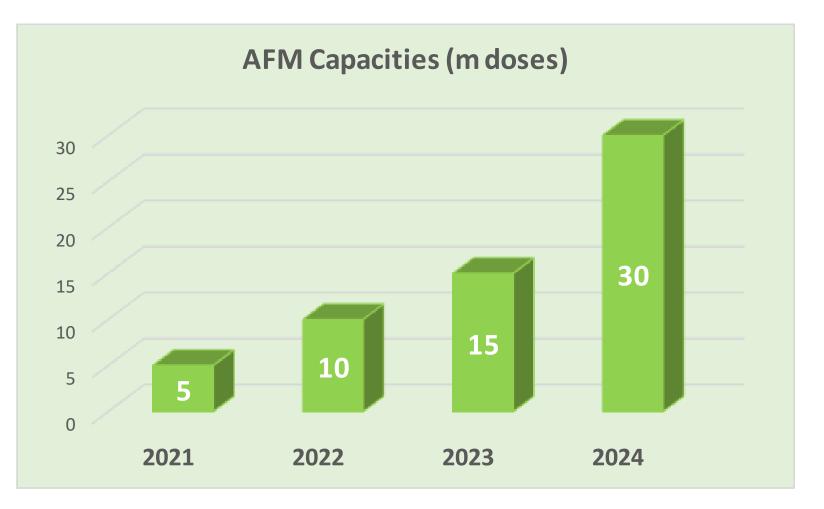
Insufficient information Provided
Current capacity
Could meet requirements or has performed action in the past



- Partnerships
 - Improve the process in yield
 - Improve the vaccine features
 - Capacity building on core and new competencies
- AFM possible extensions
 - 500 m² possible extension in the production building
 - Other building options







Advances: Projects/Programs RELEVANT to ADVANCING VACCINE DEVELOPMENT & MANUFACTURE IN AFRICA



Guidelines

- AfricAmaril project
- Several partnerships on going for :
 - Cell culture production
 - Other vaccines





- Current facility future use options
 - R&D for vaccines
 - Other small vaccines productions
 - Training facility for aseptic skills
- AVMI possible value generation for IPD in :
 - Regulatory support to submit YF dossier to local NRA's
 - Training sessions for African countries
 - Project management : founders, project managers etc

