



Institut Pasteur
de Dakar

IPD 2016 update

AVMI annual meeting

nov. 30th, dec.1st





Agenda



- **2016 YF context**
- **IPD vaccine productions**
- **Teranga project**
 - **Targets & scope reminder**
 - **Timeschedule & review of milestones**
 - **Workshop scope**
 - **Qualification / validation overview**
 - **Budget**
- **New facility project**



2016 YF context



- **Outbreak starting in dec. 2015 in angola**
- **3 countries in west africa**
- **Export cases (China...)**
- **More than 300 deaths**
- **WHO/UNICEF difficulties**
 - **Offer < demand**
 - **Use all stockpile**
 - **Fractionnated dose strategy implemented**
- **Several meetings with manufacturers**



IPD 2016 productions & sales



- **Production**

- **24 batches produced in 2016 → 616 000 doses**
- **Last batch : april 11th**
- **Restart production : dec. 15th**

- **Sales**

- **80 000 doses sold before outbreaks**
- **> 750 000 sold for outbreaks**



Teranga project

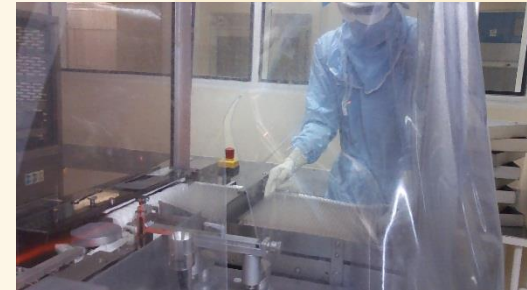


Targets and scope reminder



- **Targets**

- **Secure the process**
- **Avoid batches cancellations due to technical pb**
- **Decrease rejection rates (harvests & vaccines)**





Targets and scope reminder

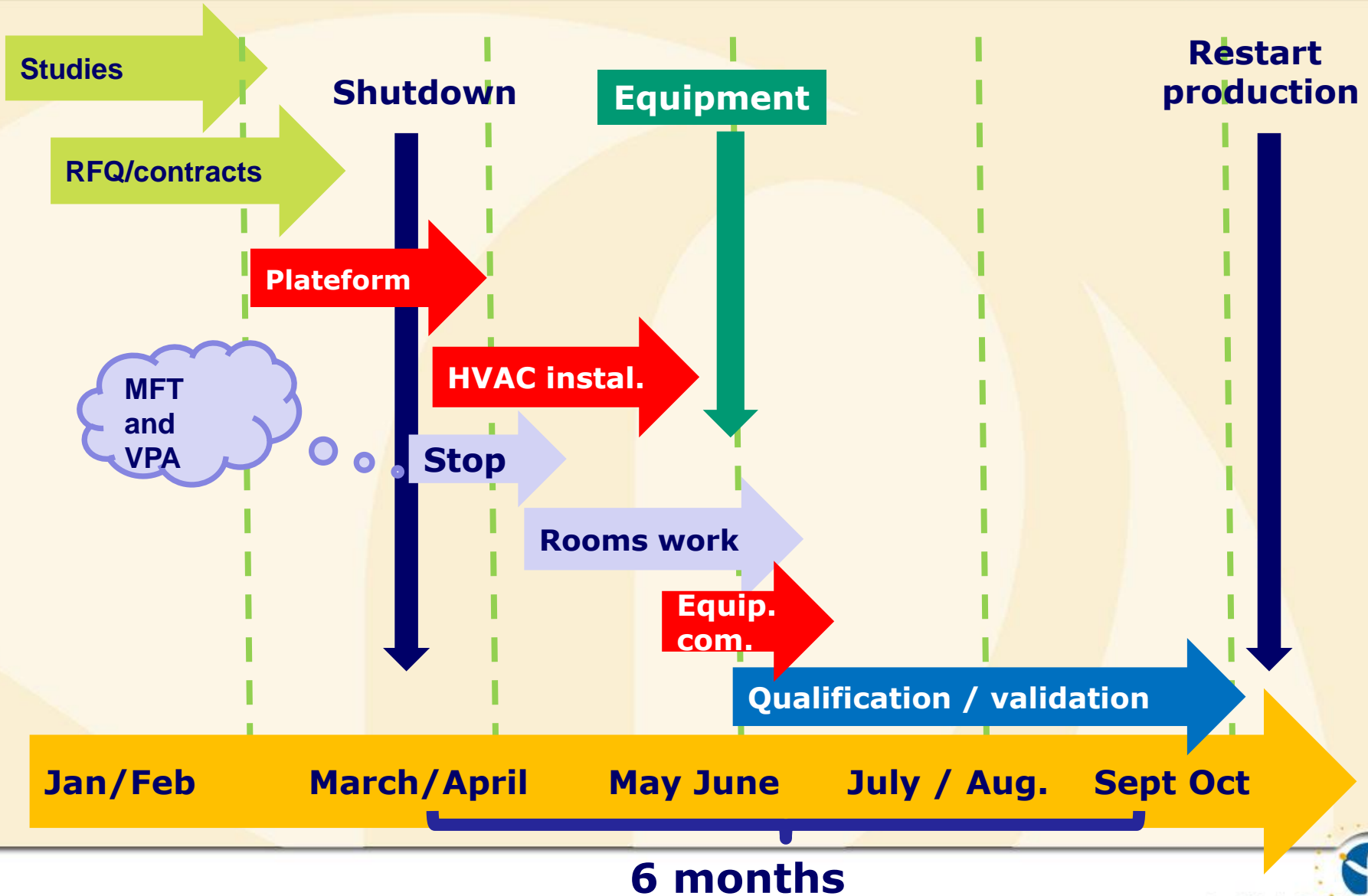


- **Scope**

- **Replace HVAC**
- **Add EG D air treatment**
- **Replace and move depyro oven**
- **Replace eggs & material disinfection system**
- **Revamp lockrooms, floors, walls and ceilings**
 - **revue personnel and material flows**
- **Replace autoclave**
- **Install automatic filling machine**



General timeschedule





Review of milestones & activities



- **Q0 : VMP & protocols validated** 
- **Q1 milestones : equipment orders placed** 
- **Q2-Q3**
 - **Prepare for shutdown** 
 - **Pass FAT** 
 - **Buy components for qualification and trials** 
 - **Validation activities** 
- **Q4 milestone : commissioning reports & VMR** 
- **Q5-Q12 : confirm KPI's and yield improvement**
- **Q12 milestone : prepare project report**



WORKSHOP SCOPE



HVAC & chilled water platform





Existing kept for EG A,B & C



**Tightened and cleaned
(connections with new HVAC secured)**



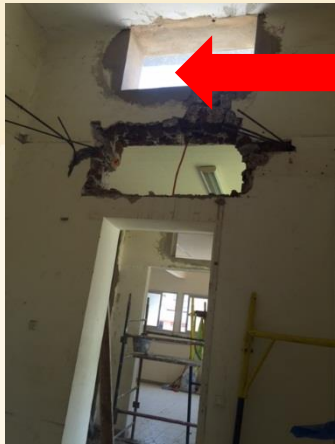
Equipment removal



Work with specific companies for removal



Big work pictures



HVAC ducts

H2O2 desinfection



Attic access



Filling room



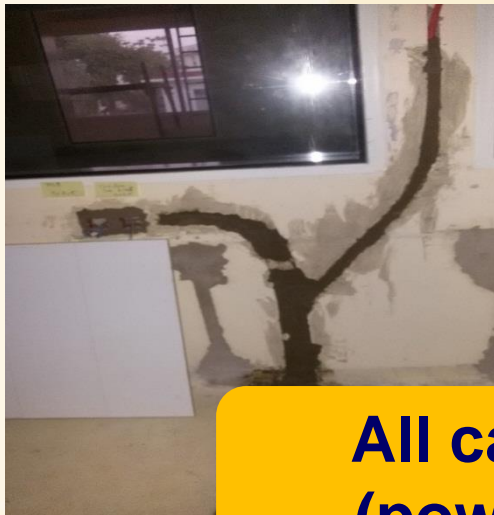
Wood floor loft



**Cables & pipes protection
→ safety**



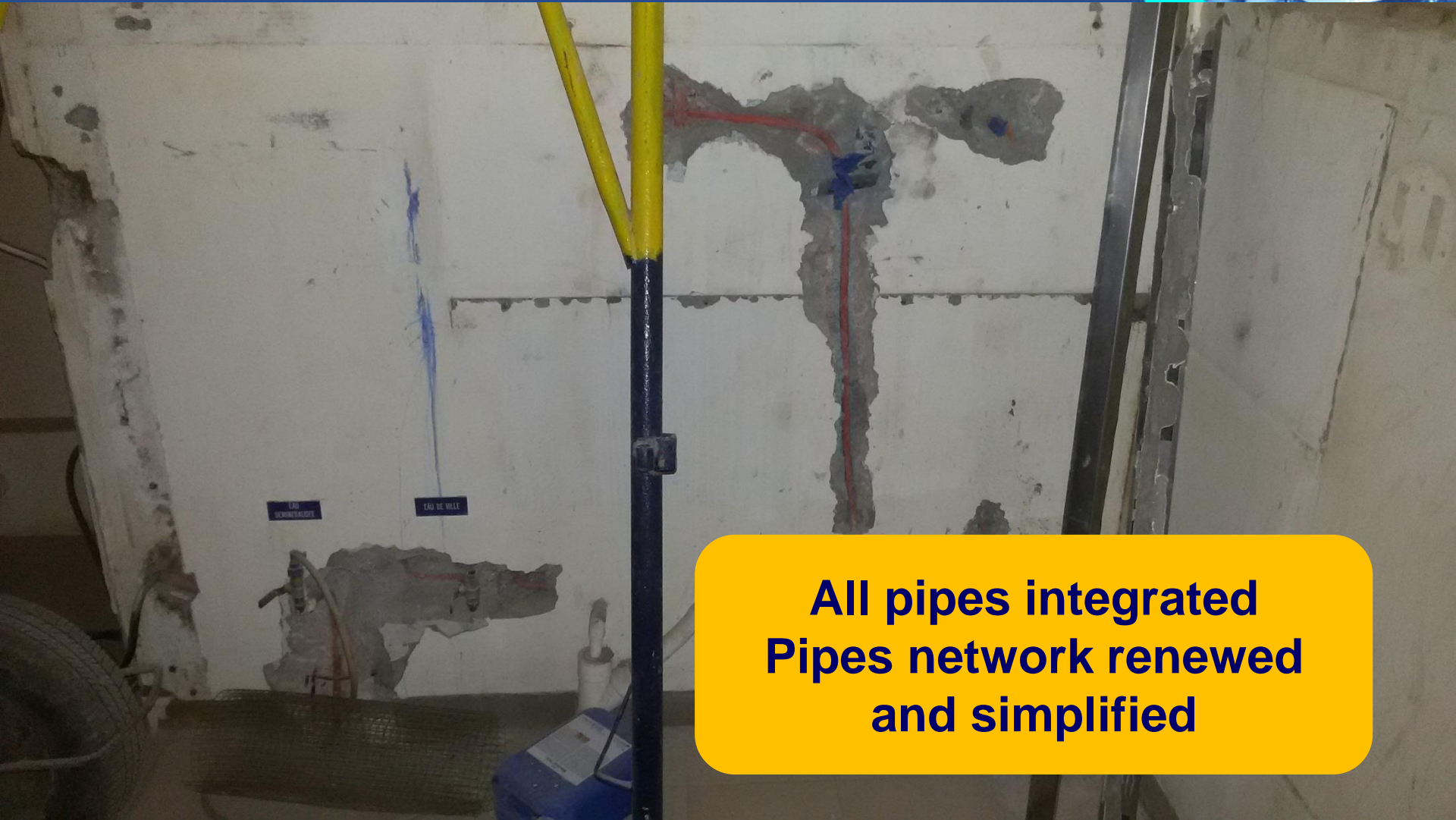
Power supply 100% changed



**All cables integrated
(power, IS/IT, phone)**



Pipes & fluids 100% replaced



**All pipes integrated
Pipes network renewed
and simplified**



Workshop partners

- **Companies presently working**

- **Clauger /GMAE : HVAC**
- **R2E : power**
- **ALBS : big work, wood floor on rooth**
- **PAM : metal platform, aluminium**
- **SDMI : stainless steel**
- **GMAE : pipes**
- **LSB/Solmurex : walls, floors and roofs**
- **Pharmtech : big Eqpt**
- **Air liquide : fluids**



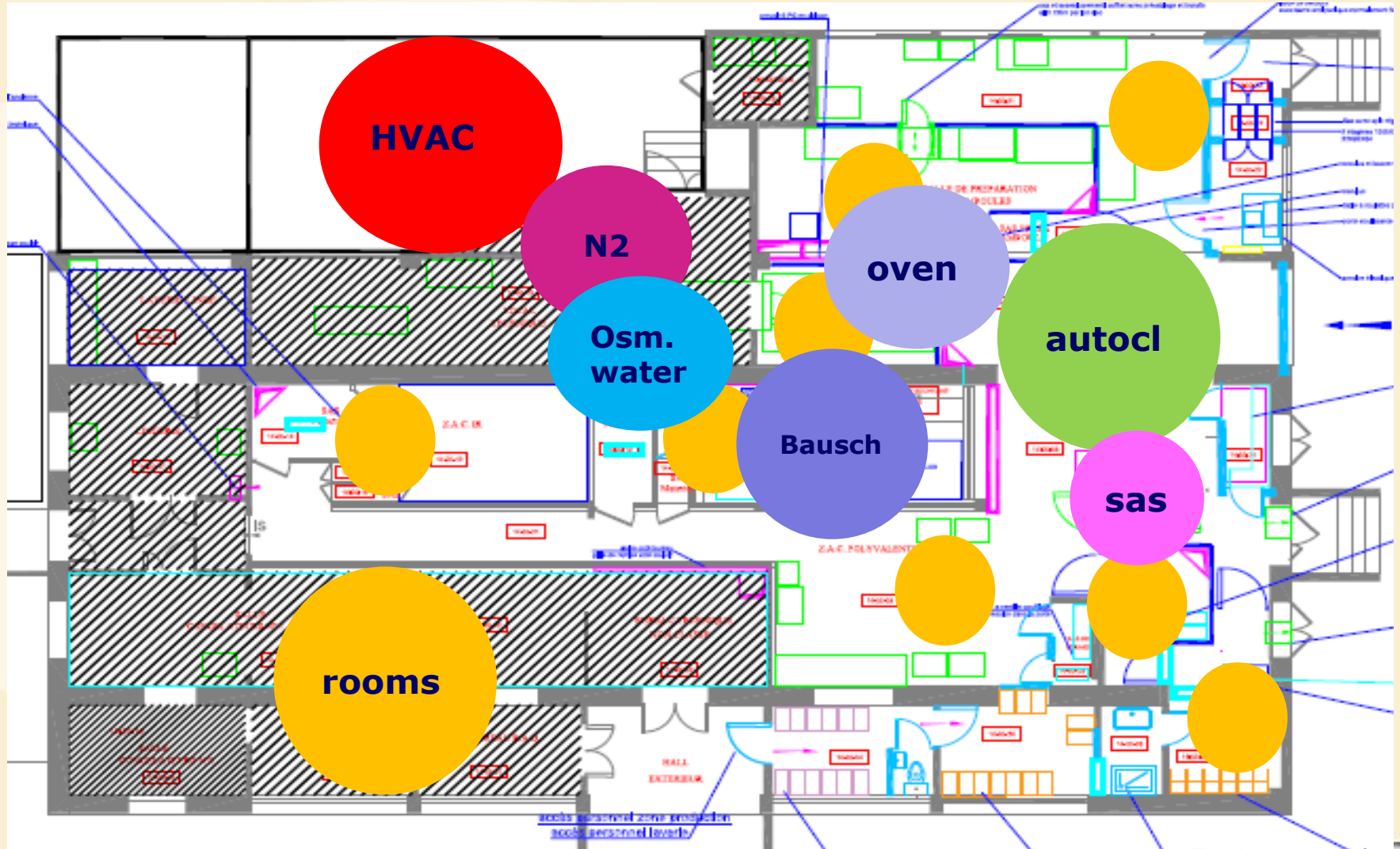
Timeschedule still on line



Qualification and validation

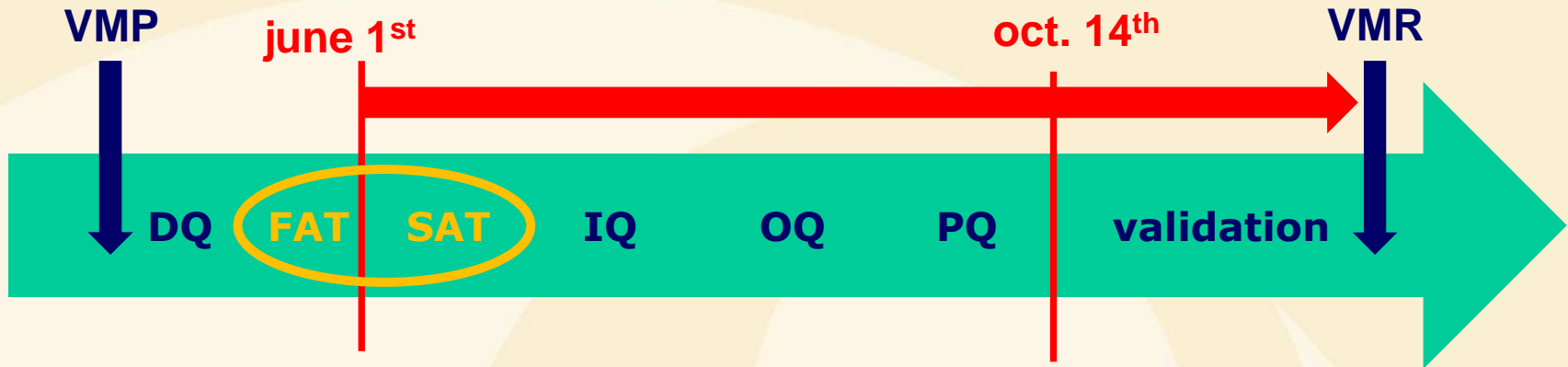


Qualification scope





Qualification timeschedule



- **FAT : factory acceptance tests**
- **SAT : site acceptance tests**
- **DQ : design qualification**
- **IQ : installation qualification**
- **OQ : operational qualification**
- **PQ : performance qualification**
- **Process validation (harvest, vaccine)**

IPD
Qualis expertise
Suppliers

IPD



Documentation



- **Validation Master Plan**
- **FAT protocols & reports**
- **SAT protocols & reports**
- **DQ reports**
- **Risk analysis for all 4 + HVAC**
- **IQ/OQ protocols & reports**
- **PQ protocols & reports**
- **Operators qualification for process changes**
- **Aseptic process validations (harvest & vaccine)**



Specific documentation codes for project



Budget



Budget evolution



		Approved budget	Updated budget	Difference
PROJET GLOBAL		\$1 696 537	\$1 779 292	\$82 755
PERSONNEL		\$0	\$0	\$0
TRAVEL		\$104 600	\$42 361	-\$62 239
CONSULTANTS		\$134 200	\$42 830	-\$91 370
CAPITAL EQUIPMENT		\$1 038 937	\$804 927	-\$234 009
OTHER DIRECT COST		\$169 076	\$520 007	\$350 930
SUB AWARD		\$249 724	\$238 575	-\$11 150
Other (miscellaneous)		\$0	\$12 054	\$12 054

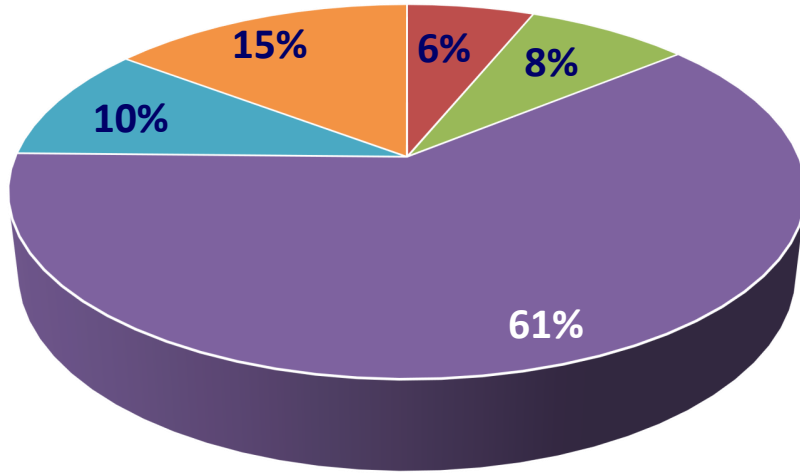
**Scope has been changed during requirement specifications
 → higher GMP level in EG rooms & safety items taken into account**



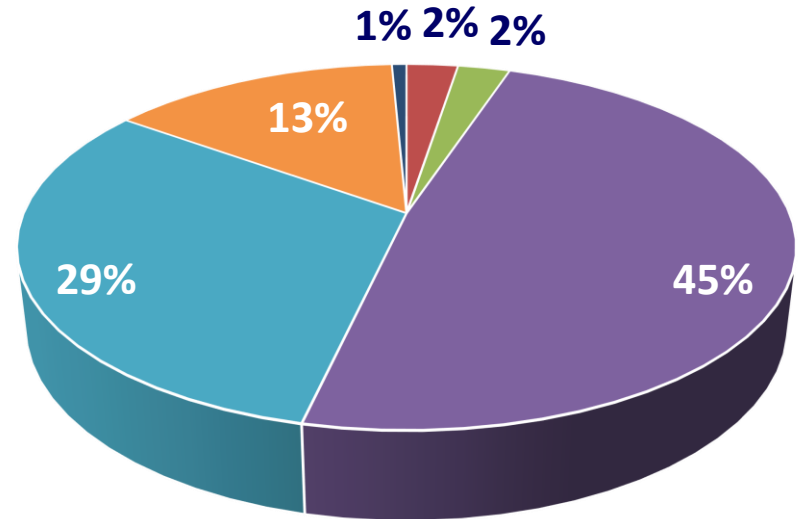
Budget repartition



Initial budget



Updated budget



■ TRAVEL

■ CONSULTANTS

■ CAPITAL EQUIPMENT

■ OTHER DIRECT COST

■ SUB AWARD

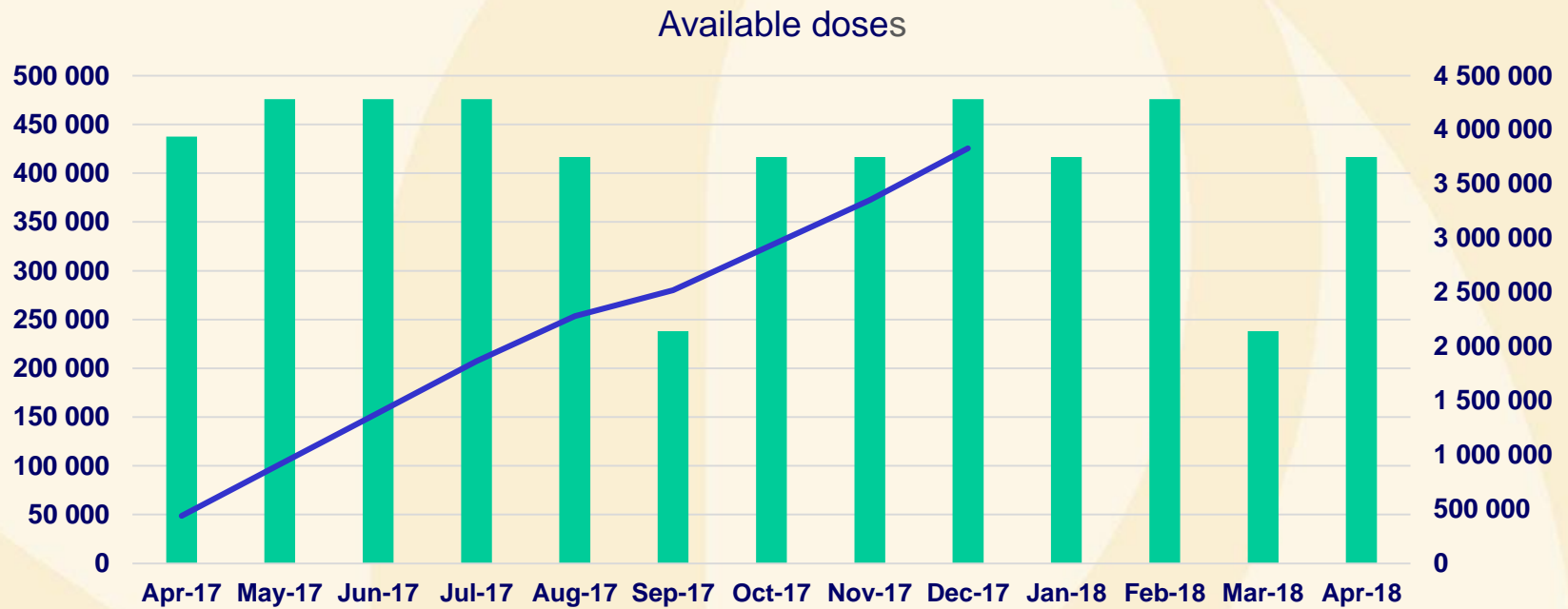
■ Other (miscellaneous)



Next steps



- **Validation batches**
- **Restart routine productions**





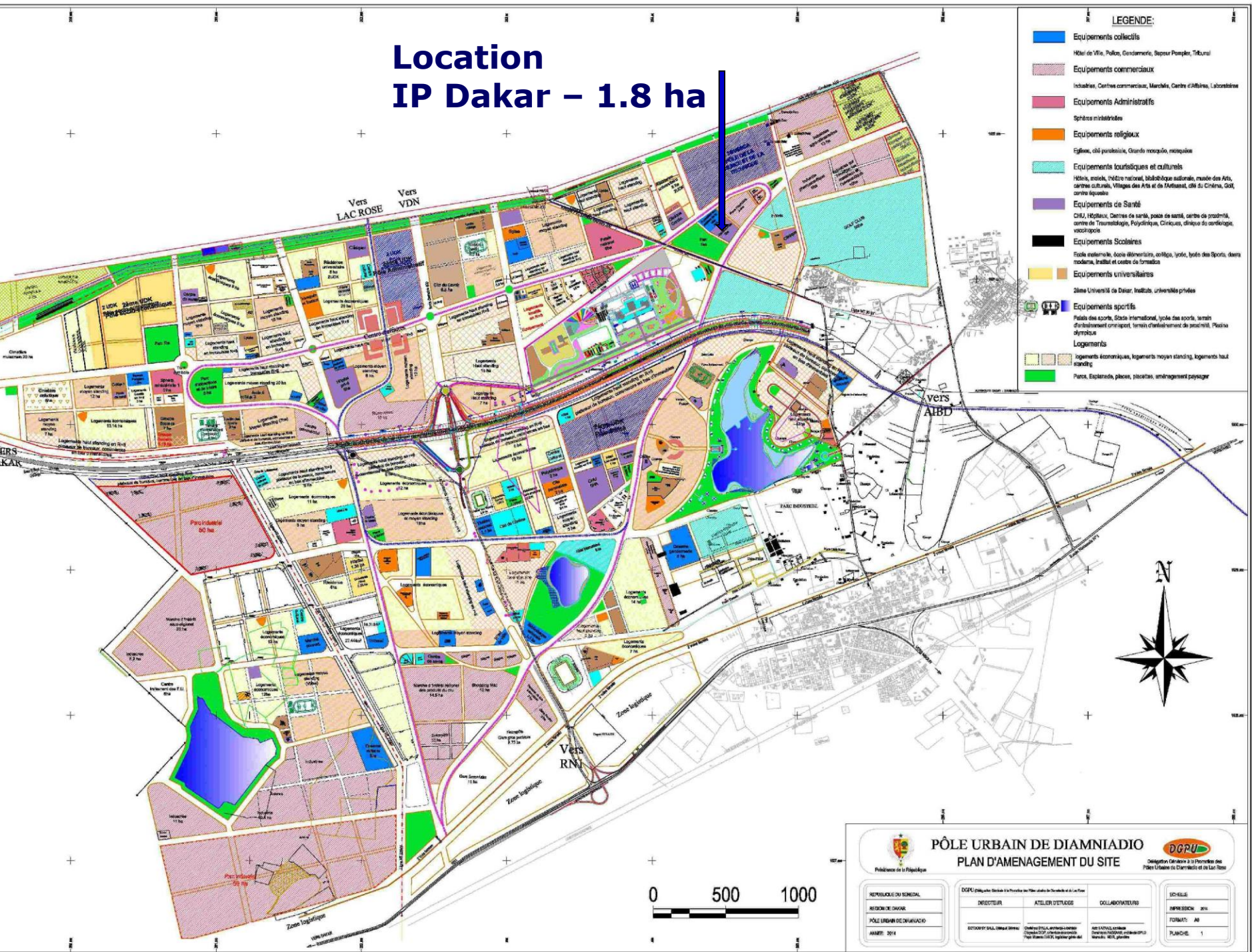
New facility : AfricAmaril project



Project location




Location IP Dakar – 1.8 ha



LEGENDE:

- Equipements collectifs
Hôtel de Ville, Palais, Casernes, Bapou Pomper, Tribunal
- Equipements commerciaux
Industries, Centres commerciaux, Marchés, Centre d'Affaires, Laboratoires
- Equipements Administratifs
- Espaces ministériels
- Equipements religieux
Eglises, cité protestante, Grands mosquées, mosquées
- Equipements touristiques et culturels
Hôtels, musées, théâtre national, bibliothèque nationale, musée des Arts, centres culturels, Villages des Arts et de l'Artisanat, Cité du Cinéma, Golf, centre équestre
- Equipements de Santé
CHU, Hôpitaux, Centres de santé, poste de santé, centres de diagnostic, centres de Traumatologie, Polycliniques, Cliniques, cliniques de cardiologie, vestiaires
- Equipements Scolaires
Ecole maternelle, Ecole élémentaire, collège, lycée, lycée des Sports, centre moderne, Institut et centre de formation
- Equipements universitaires
Zones Université de Dakar, Instituts universitaires privés
- Equipements sportifs
Pavillon des sports, Stade international, lycée des sports, terrain d'entraînement polyvalent, terrain d'entraînement de football, Piscine olympique
- Logements
Logements économiques, logements moyen standing, logements haut standing
- Parcs, Espaces, places, placettes, aménagement paysager





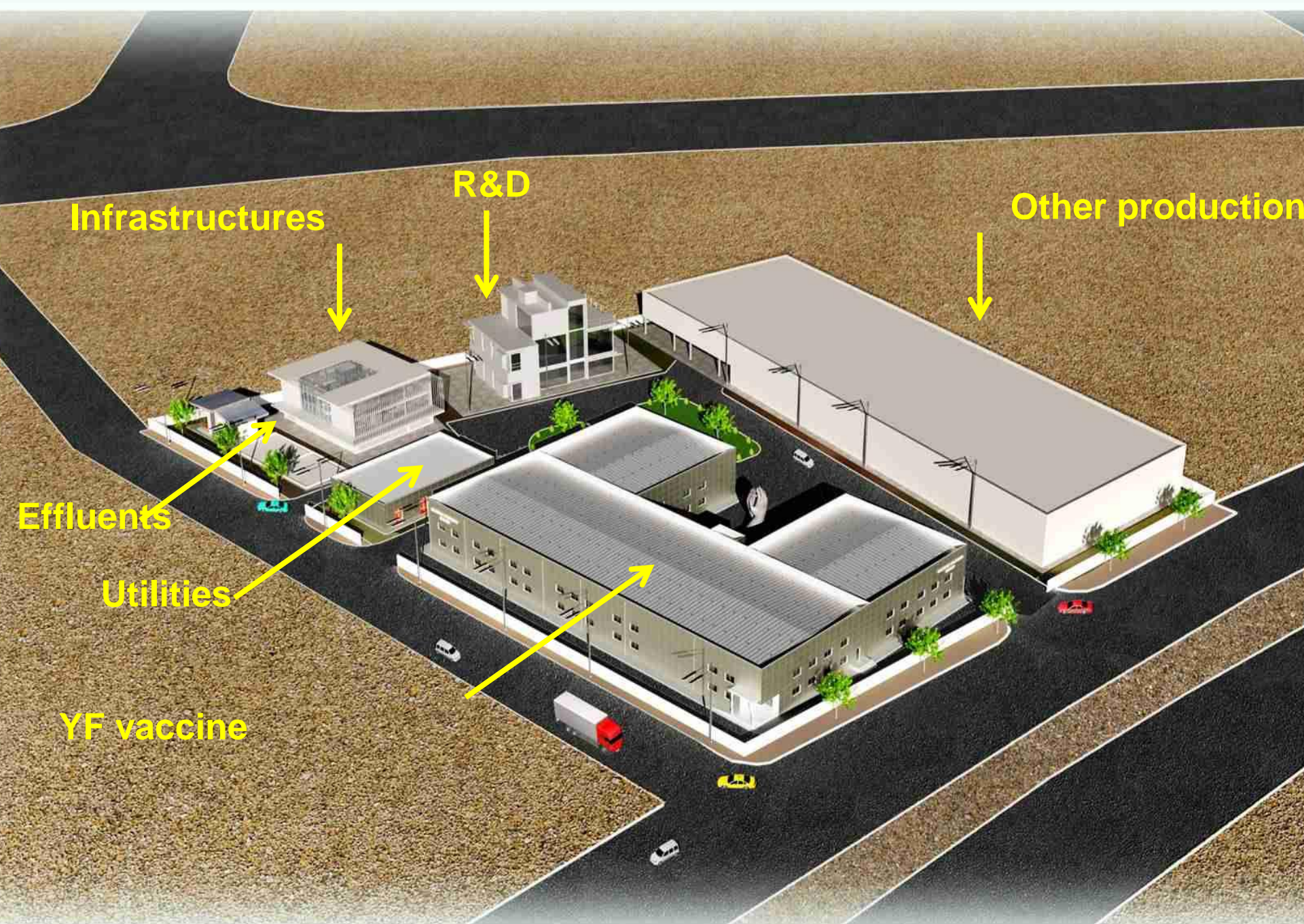
PÔLE URBAIN DE DIAMNIADIO
Préfecture de la Région de Dakar

PLAN D'AMENAGEMENT DU SITE



Délégation Centrale à la Préfecture des Pôles Urbains de Diamniadio et de Lac Rose

REDACTEUR GENERAL	DGRU Délégation Centrale à la Préfecture des Pôles Urbains de Diamniadio et de Lac Rose		ECHELLE
INFORMER DAKAR	DIRECTEUR	ATELIER D'ETUDE	INFORME N°
PÔLE URBAIN DE DIAMNIADIO	COLLABORATEURS		FORMAT
ANNEE 2014	ESTUDIOS DALL, OMBRA DAKAR	DAKAR ETUDES URBAINES Délégation DGRU, Direction Régionale de l'Urbanisme, Direction Régionale de l'Aménagement et de l'Urbanisme, Direction Régionale de l'Environnement, Direction Régionale de l'Énergie et de l'Électricité	PAGE 1



Infrastructures

R&D

Other production

Effluents

Utilities

YF vaccine



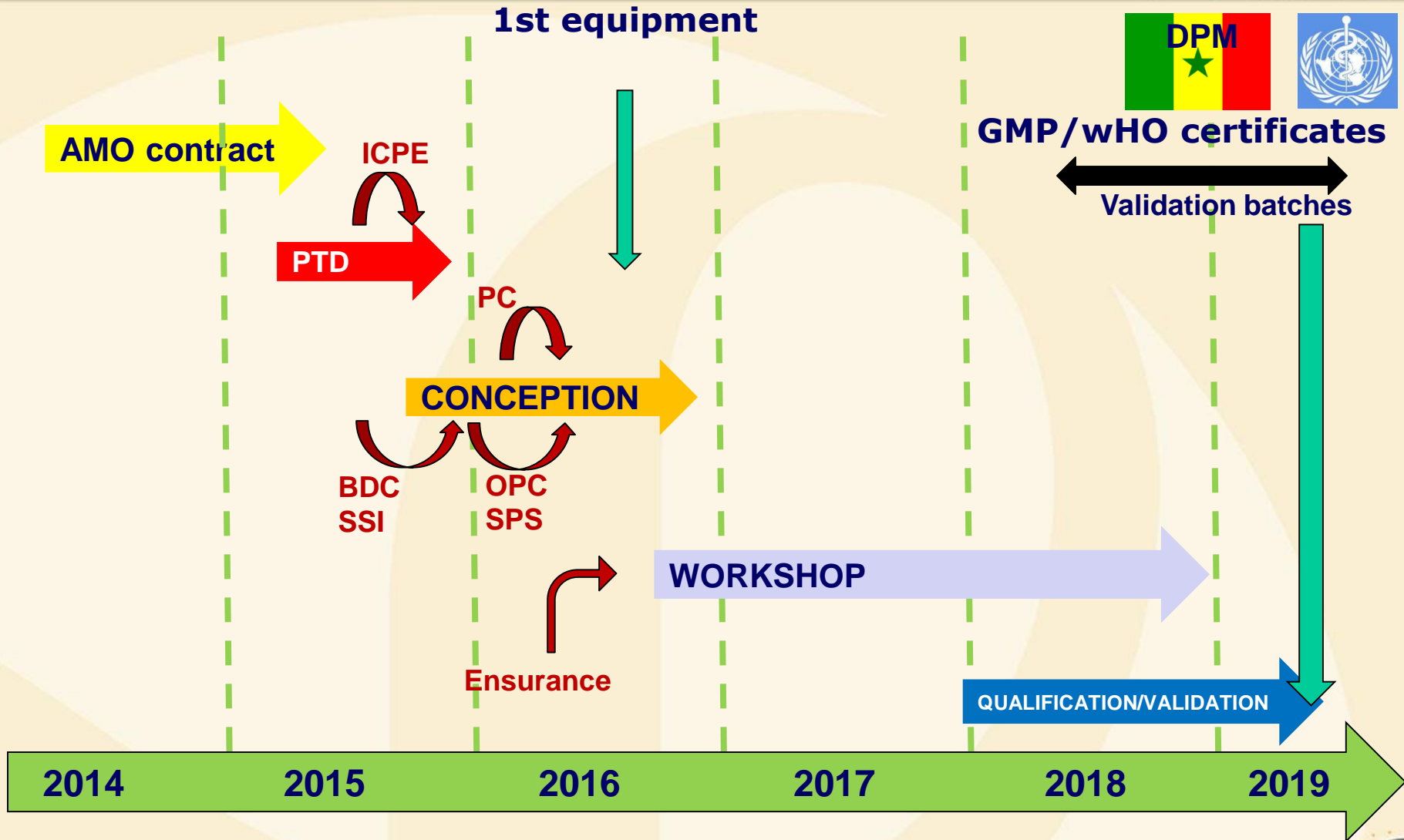
Achieved in 2016



- **Environmental study**
- **Technical program**
- **External project management : Technip**
- **Underground studies**
- **Filling line RFP**
- **Sterility test isolator RFP**
- **....**



General timeschedule





Thank you for your attention