

From a cup of coffee to a high-tech laboratory for hematology testing



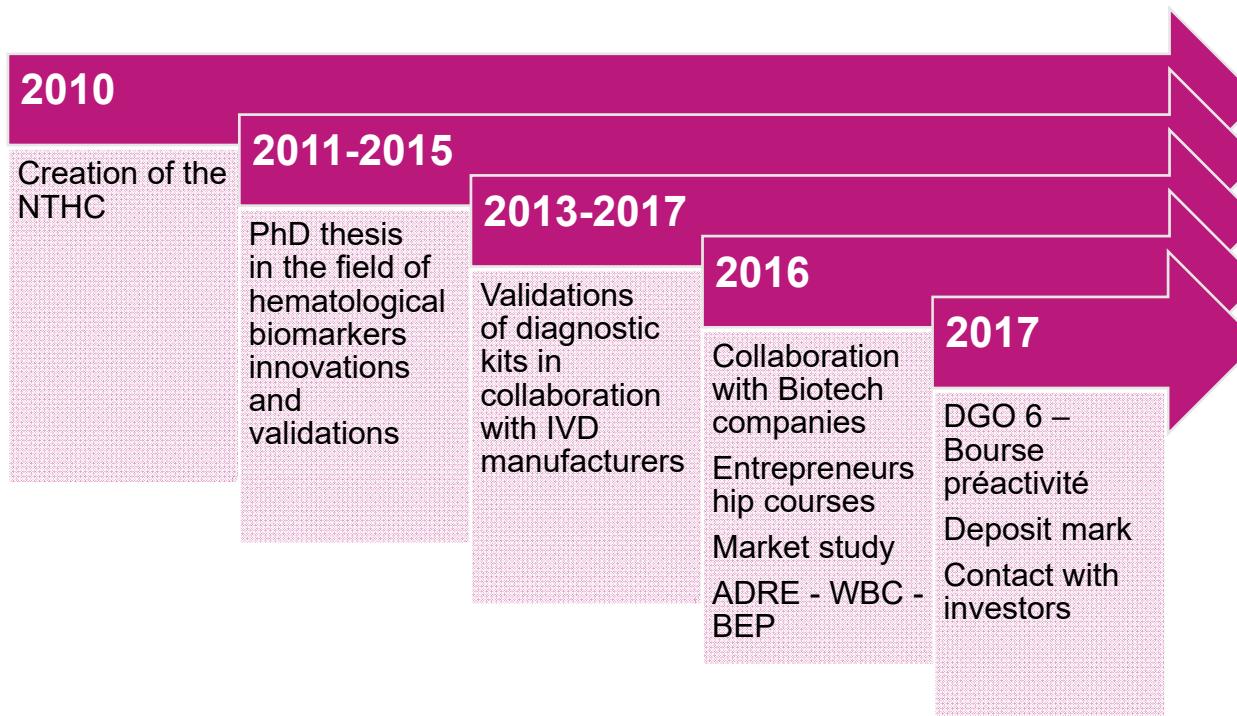
*Prof. Jonathan Douxfils
University of Namur
QUALIblood s.a.*

12 MARS
MAART
2019

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*Colloque
Dr Paul Janssen*

Genesis of QUALIblood



Genesis of QUALIblood

Start-up from the **University of Namur**

More than 10 years of research in **hematology** with a focus on **hemostasis** and **hemocompatibility** - more than 100 publications in the field with innovative biomarkers development and discovery

Gathering of expertise from **laboratory**, **clinical** and **regulatory** scientists



Potential market needs



Antithrombotics
19 billions \$
CAGR 7.6%

193 products in development

Female hormonal therapies
10 billions \$

Antineoplastic agents (TKI)
40 millions \$



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Commercial strategy

Scientific contacts:

Publications, studies,
collaborations



Representation:

Presence at international congress,
presentation of clinical studies



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Define the offer

We often hear...

“The haematological environment is so complex and a plenty of tests are so constantly renewed that a continuous expertise in this field is hard to reach”

“I risk my time and money in inefficient or outdated blood testing. Could a specific laboratory help me in the choice of the most appropriate biomarkers to ensure transferability to real-world applications?”



Define the offer

Because every result matters, QUALIblood is offering to **pharmaceutical** and **IVD companies** a tailor-made accompaniment in blood analyses.



Define the offer

FACILITIES FOR PHARMACEUTICAL COMPANIES

DEFINITION OF ANALYTICAL PROTOCOLS

- ACCOMPANIMENT IN THE REDACTION OF THE PROTOCOL
- ADVICE AND LITERATURE REVIEW FOR DETERMINATION OF MOST APPROPRIATE BIOMARKERS

PRE-CLINICAL INVESTIGATIONS – GRP AND/OR GLP AND ISO 13485* & 17025*

- IN VITRO INVESTIGATION ON PLASMA, SERUM, WHOLE BLOOD OR CELL LINES
- TAILOR-MADE SOLUTIONS AND TESTING VALIDATED ACCORDING TO REGULATORY REQUIREMENTS
- BLOOD TESTING OF SAMPLES FROM ANIMAL STUDIES

CLINICAL INVESTIGATIONS - GLP AND ISO 13485* & 17025*

- BLOOD TESTING OF SAMPLES FROM HUMAN STUDIES – PHASE I TO III

BATCH RELEASE - GLP AND ISO 13485* & 17025*

- EVALUATION OF THE QUALITY OF PLASMA-DERIVED MEDICINAL PRODUCT ACCORDING TO REGULATORY REQUIREMENTS

FACILITIES FOR IVD COMPANIES

DEFINITION OF ANALYTICAL PROTOCOLS

- ACCOMPANIMENT IN THE REDACTION OF THE PROTOCOL

PROOF-OF-CONCEPT – GRP AND/OR GLP AND ISO 13485*

- IN VITRO INVESTIGATION ON PLASMA, SERUM FROM OUR PROSPECTIVE BIOBANK
- IN-VITRO INVESTIGATION ON PLASMA, SERUM OR WHOLE BLOOD FROM HEALTHY SUBJECTS
- METHOD COMPARISON ON SEVERAL ANALYTICAL PLATFORMS – WHEN AVAILABLE
- EARLY ADVICES FOR METHOD IMPROVEMENT

ANALYTICAL PERFORMANCE – GLP AND ISO 13485*

- DEFINITION OF ANALYTICAL PERFORMANCES ACCORDING TO REGULATORY TEMPLATES – VALIDATION PROCESS
- DEFINITION OF NORMAL RANGE FROM OUR AVAILABLE BIOBANK FROM HEALTHY SUBJECTS

REAL-LIFE EVALUATIONS – GLP AND ISO 13485*

- STUDY PERFORMED IN COLLABORATION WITH OUR UNIVERSITY PARTNERS
- SUPERVISION OF MULTI-SITE STUDIES

* ISO certifications are pending

* ISO certifications are pending



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Partners and first customers

Partners and invests



Customers



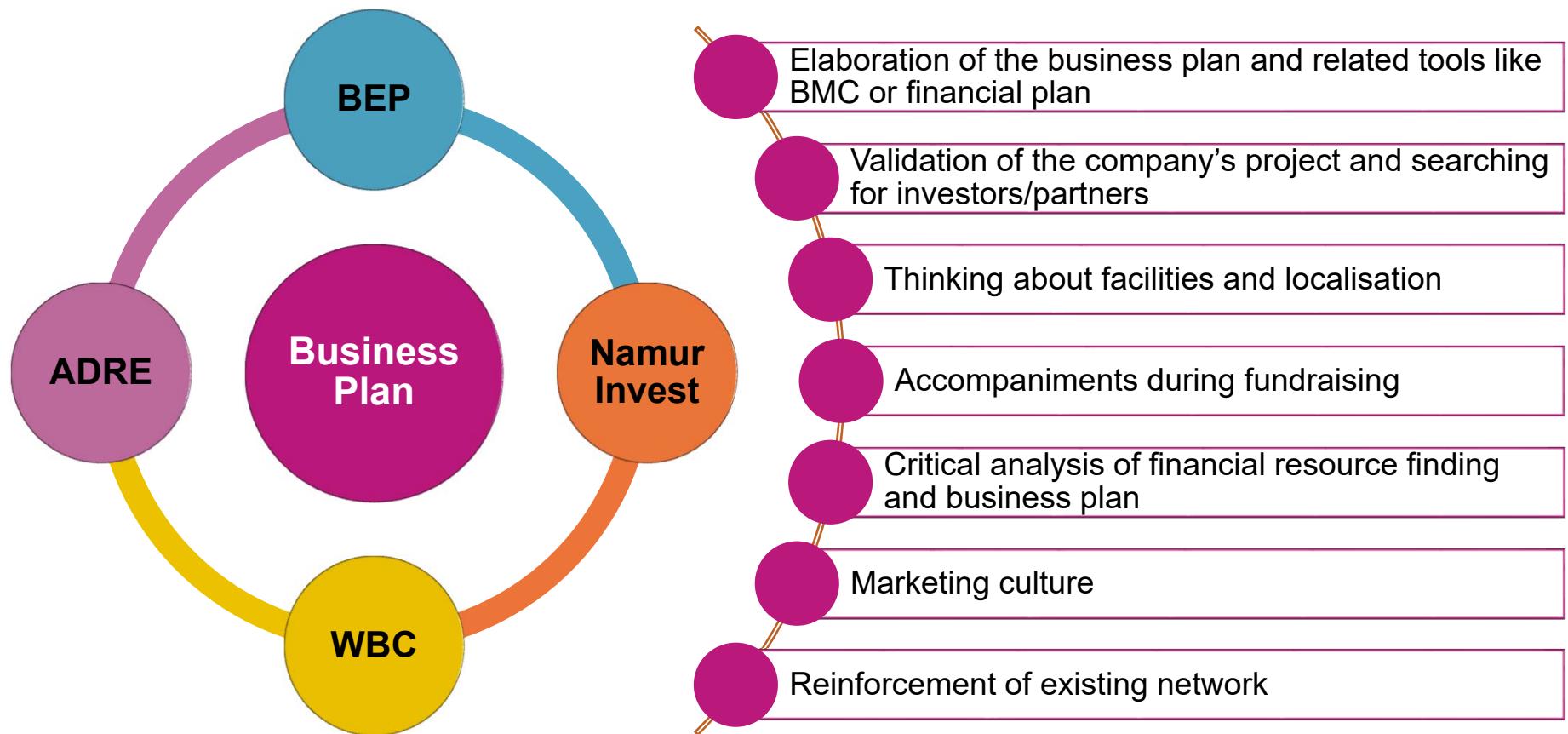
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2016-2017

Pivotal years



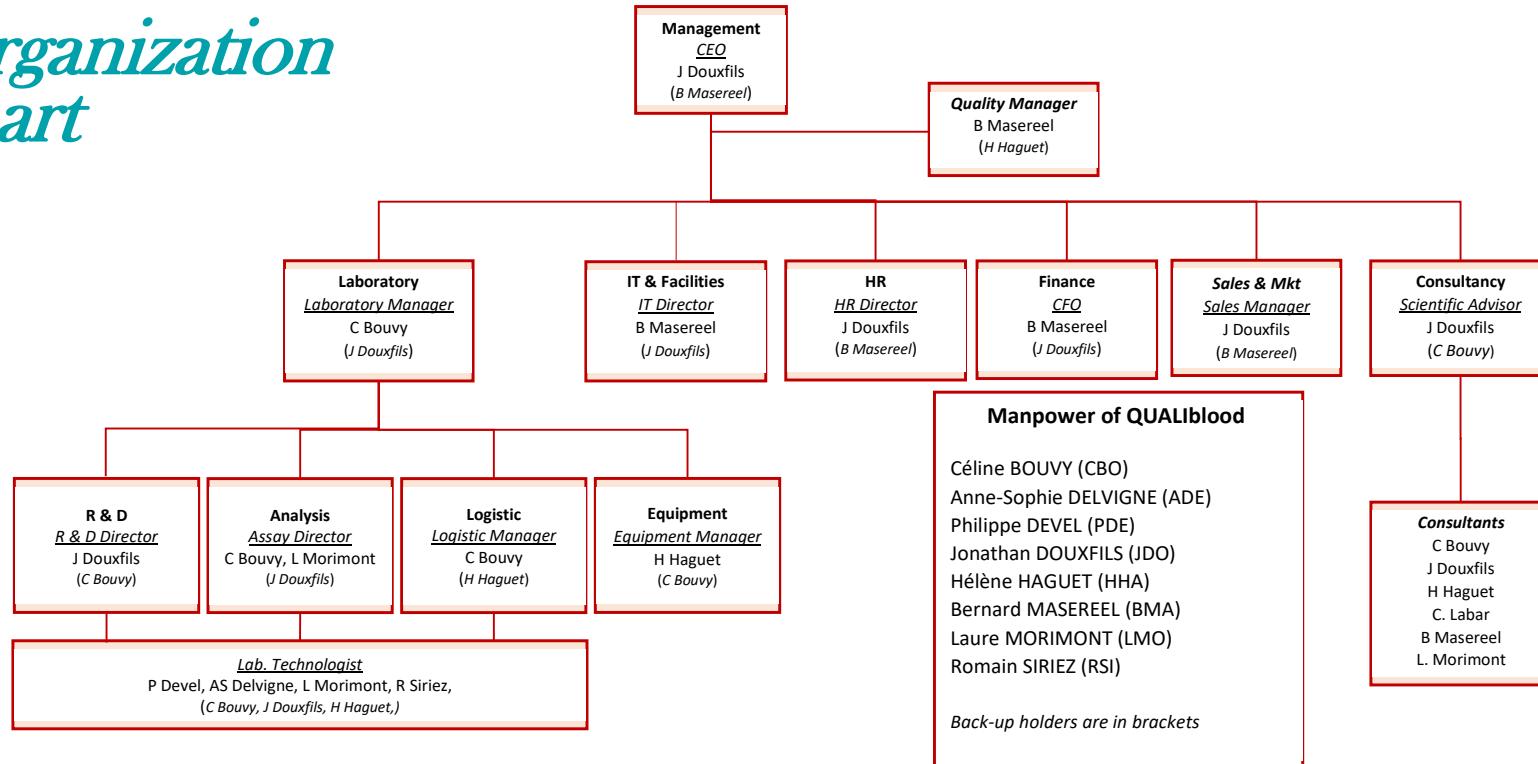


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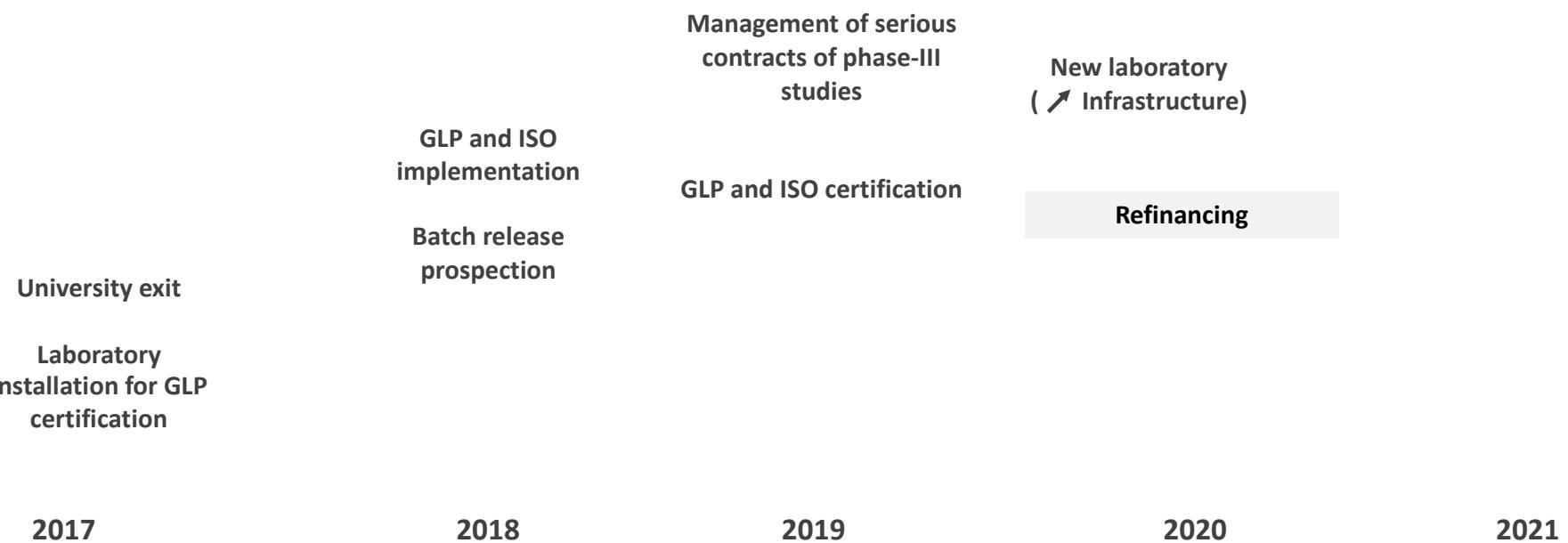
Organization chart



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Growth plan



*Take home message
and advice*

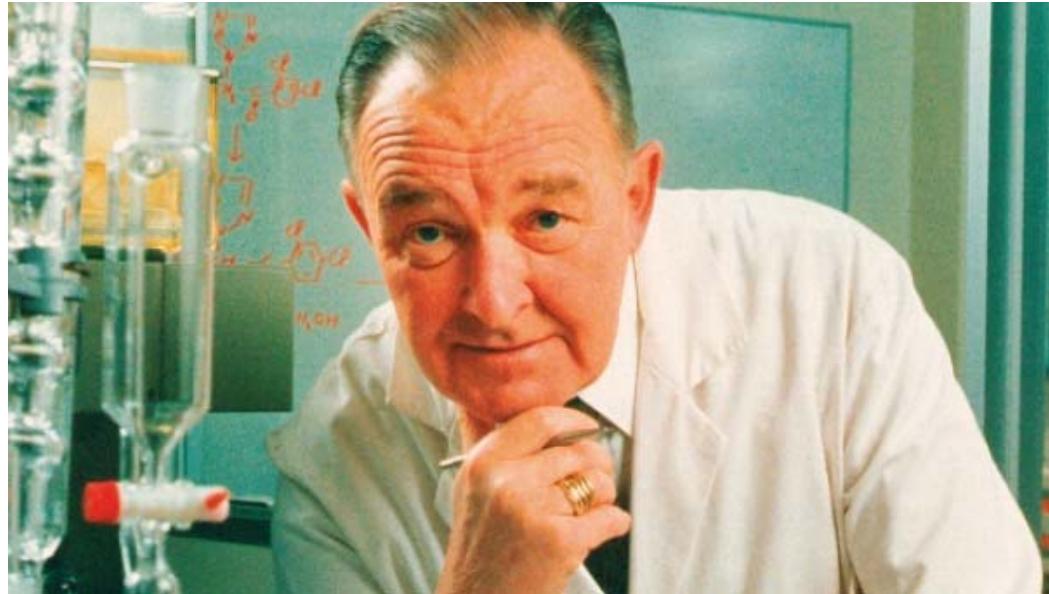


-
- As a medical scientist, there is a real need to follow specific entrepreneurship courses
 - Fundamental or medical sciences are not business science, so don't see businessman as profiteers of your ideas but rather as a catalyst
 - Continue to elaborate your scientific network by publishing, attending congress and so on, this is the core business of your society
 - Hire different profiles and people for which you would like to work for! As a small company each collaborators is of utmost importance!
 - Keep your motivation for innovation and enjoy the adventure!

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“The human mind is like a parachute. It works best when it is open”



Product Development – a few keys & pitfalls

*Enrico Bastianelli,
Scientific & Business Biotech Advisor*

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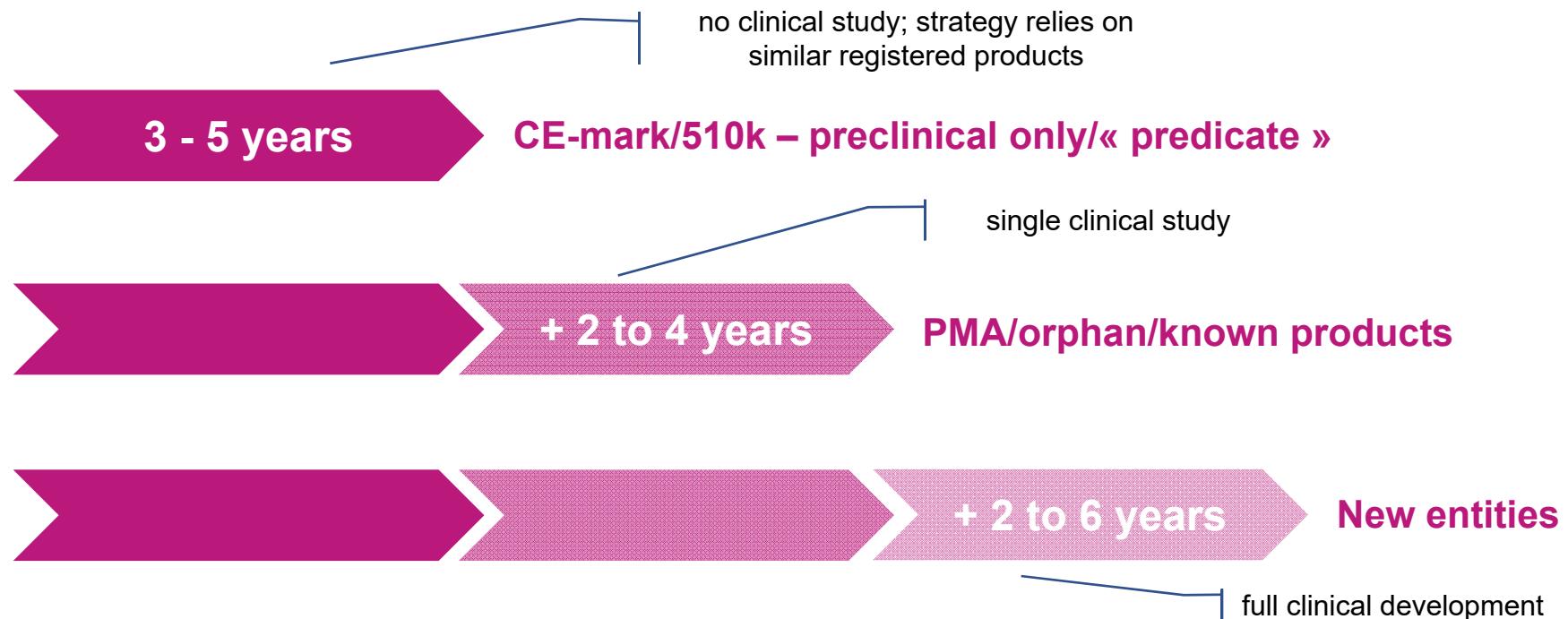
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A Brief Introduction to “Main” Development Paths



Products - Main Development Paths



Products - Main Development Paths

Preclinical Med Dev.

CE-mark/510k

Cyto/genotoxicity, biocompatibility, histocompatibility, performance, acute/chronic toxicity...; industrialization

Preclinical pharm/biotech

New entities

GLP toxicity, reprotox, embryo-fetal development tox., carcinogenicity....

Safety & PoC

Confirmation

Phase IA, IIB, IIA, IIB, III – randomized controlled studies



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Products Development – A Common Trap

Duration & (people) resources too often underestimated

A phase IIb study example: 2 groups, 50 patients & 12-month follow-up, CRO-managed...



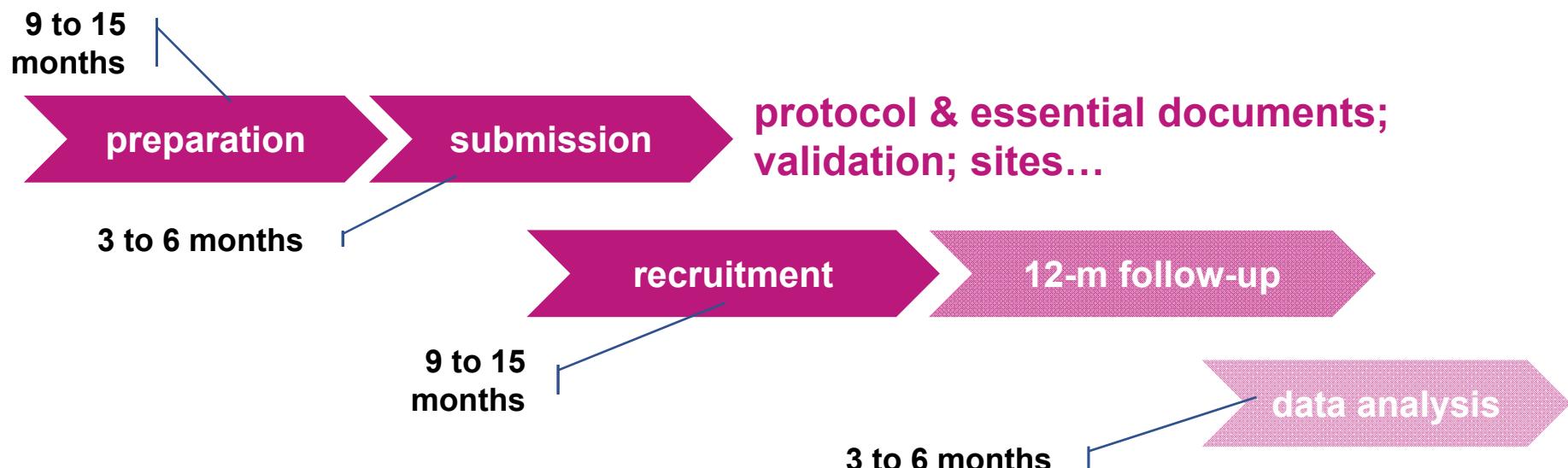
12-m follow-up



Products Development - A Common Trap

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A phase IIb study example: 2 groups, 50 patients & 12-month follow-up, CRO-managed



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Some Success Factors to Consider



Planning

The regulatory perspective first:

- Plan preclinical, production & clinical on market access strategy
- Plan from max to required
- Be prepared to be challenged / to challenge
- Validate through Scientific Advice/Protocol Assistance



Planning

Market and HTA impact into development and product success:

- Becoming a significant hurdle
- To be assessed very early on in the process: medical need, competition, price/reimbursement, costs...
- To be integrated into development plan



Execution

The key of a successful execution is keep control (of development) internally by adding to a well-thought/reasonable (retro-)planning:

- Enough (management) resources
- Right expertise
- Quality/excellence mindset



Execution

The (internal) Human Factor: challenge of talents:

- How to recruit? (Where is our attractiveness level)
- How to train: experience vs. « trial & error » / on the spot training
- How to retain?

Advices & Consulting:

- The same challenge



Resources

“World-class” Walloon Ecosystem:

- Infrastructure (offices, labs, production...)
- Incubation(s) – support & services (acceleration, business development, international...)
- Networks (industrials, consultants, hospitals, patients...)



Resources

Financials:

- Clinical studies cost from a few hundreds to millions of euros
- Growing basis of Business Angels & VCs to support company funding (from seed through series A/B/...)
- Has not caught up yet / still lagging



Resources

Subsidies:

- Unique/top-class Walloon subsidies system
- A must-have in current “funding” landscape



Conclusion

=> Plan/prepare development with exit/next round in mind





Collaborer avec le monde pour le bien-être de tous

Janssen Pharmaceutical Companies of Johnson & Johnson

Sonja Willems Managing Director | Janssen Benelux | 12 March 2019

Janssen et J&J en Belgique



Famille d'innovation Johnson & Johnson



Encourager la meilleure science



Innovation Centers

4 Innovation Centers
sur 3 continents

>400 investissements depuis 2013

>1 milliard de \$ capital déployé depuis 2013



JLABS

13 sites à travers le monde
+ de 480 entreprises en résidence,
financement de plus de 11 milliards de
dollars au cours des 6 dernières années
+ de 120 collaborations avec J&J

JLABS @ BE

Modèle unique, libre de droit,
18 sociétés en résidence



Johnson & Johnson Development Corporation

+ de 45 ans d'investissements
en capital-risque

+40 investissements en 2018

>450 MM de \$ capital déployé en 2018

À propos de JLABS



Un environnement flexible et économique en capital

pour réduire le temps et les coûts d'innovation pour les patients



Réduction des coûts d'infrastructure et gestion centralisée

des installations partagées



Permet aux entrepreneurs de mettre du capital au travail

immédiatement dans un environnement optimisé et efficace



Programmes éducatifs

pour développer les compétences, les connaissances et les réseaux afin d'autonomiser la communauté locale de l'innovation



Notre partenariat avec Liege



Merci



www.facebook.com/janssenbelgium



www.twitter.com/JanssenBelgium



www.linkedin.com/showcase/janssen-belgium/

*Clés de réussite
& expertise - Liège*
Julien Compère, CEO CHU Liège

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Who am I ?

- CEO University Hospital of Liege
- Member of the BoD: CHR de la Citadelle, CH Bois de l'Abbaye, Clinique André Renard
- Former Chairman of the BoD: Belgian Federation of Academic Hospitals
- Member of the BoD: Gesval, Bridge2Health, ATC



1. Strong Research and Clinical Activities

- Academic Hospital (access to patients, PI & KOLs)
- Complete University (10 faculties and 1 business school)
- Dedicated Research Institutes (especially Giga)
- Technological platforms



2. Dynamic biotech and medtech cluster

- Over 70 life sciences companies
- Staff: + 2.850 jobs (250 new jobs/year)
- Funds raised in 2018: 200M€
- Sectors: oncology, cardiology, immunology, medical device



3. Ambitious investment plan in hosting infrastructure

Actual infrastructure from Labhotel to GMP facilities:

- GIGA: 3.000 m² in the immediate vicinity of the CHU
 - => For R&D in close collaboration
- Accessia: 800 m² cleanrooms & 800 m² labs & offices

Available in the next years, new buildings for growing companies:

- Totalling 50.000 m²
 - => For biomedical production and research



Conclusion

A fully-integrated ecosystem providing efficient and coordinated access to:

- Scientific and clinical expertise
- Specialized infrastructure
- Different funding schemes
- Partnerships



*Clés de réussite
& expertise - Charleroi*

Florence Bosco, CEO – Biopark Dev

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CHARLEROI BRUSSELS SOUTH BIOPARK

A strategic biotech hub in the heart of Europe since 20 years



- 50 companies
- 1.700 jobs
- 200M€ deal flow in 2018
- 350 researchers
- 15 clinical trial sites (incl. 3 academic)
- Bachelors, Masters & continuous training



A dense network of scientific & clinical expertise



Translational Research

Cancer



ULB Cancer Research Center
Director: Prof François Fuks

Neuro-
sciences



ULB Neurosciences Institute
Director: Prof Axel Cleeremans

Immu-
nology

ULB Immunology
Institute



ULB Immunology Institute
Director: Prof Oberdan Leo

Preclinical Research



Center for Medical & Molecular Imaging

Director:
Prof Serge Goldman
& Mrs Laure Twyffels

BUC

Animal Lab

Biopark ULB Charleroi Animal Lab
Director: Prof Philippe Horlait



Clinical Research



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A specific and affordable real estate strategy

Shared lab & office facilities: i-Tech Incubators 1 to 5



Brownfields and Greenfields



Next project: i-Tech 6

- Service center
- R&D facilities
- Manufacturing facilities
- 25.000m²
- 100M€
- 10 years
- Real estate holding under creation
- Igretec, SRIW + private partner(s)



A dedicated team to leverage development opportunities

Shareholders:



Missions:

- Services to members
- Seed acceleration
- Soft landing services
- Ecosystem development
- International promotion
- Real Estate development with Biopark IMMO



Florence Bosco
CEO Biopark Dev
Seed Acceleration
Program Manager



Michel Coulon
CEO Biopark
Science & Education



Augustin Coppée
Business Developer



Perrine Schepers
Member Services
Manager



Nathalie Roelandt
Business Analyst



Anne-Marie Bauduin
Scientific Director



Michel Toungouz
Medical Director



Helena Pozios
Investors Liaison
Manager



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CATCH

Biopark
dev

BRUSSELS SOUTH BIOPARK,
a business unit of the vibrant
Walloon & Belgian Biotech ecosystem



ATB Therapeutics – Next immunotherapeutics generation

Bertrand Magy, CEO ATB Therapeutics

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ATB Therapeutics – Next immunotherapeutics generation

**Versatile platform
Unique manufacturing
abilities
Oncology Market**

An idea – 3 co-founders



A company – ATB Therapeutics



A proof of concept – Value creation



Technology market compliance

Funding & advises



Facilities & Expertise



Experts & advisors



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3 keys of success and differentiation

Key 1 - Funding & advises



DGO6



Financial structure and Strategic development



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3 keys of success and differentiation

Key 2 - Facilities and Expertise



- Offices
- BL2 Laboratories fully equipped
- Characterization assays development
- In vitro & in vivo preclinical development
- Quality control expertise

- Modular production container



3 keys of success and differentiation

Key 3 - Experts & Advisors

**KOL : business &
technology relevance**

Project Challenging
POC choices relevance
Unmet need targeted

**Advisors: strategic development
and value creation**

IP driven development
Market driven development



ATB Therapeutics



ATB Therapeutics is looking for midterm financial partner
bertrand.magy@atbtherapeutics.com 084 84 02 49 – 0478 62 50 59



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