



SHIFTING THE LINES AGAINST CENTRAL NERVOUS SYSTEM DISORDERS

EURONEXT GROWTH



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A detailed description of the Company's business, financial situation and risk factors relating to the Company and the initial public offering is included in the prospectus of Theranexus (the "Prospectus") which received the approval of the Autorité des marchés financiers (the "AMF") under n°17-545 on October 10, 2017, comprised of the registration document (document de base) registered by the AMF on Septembber 27, 2017 under n°1.17-068 and a securities note (note d'opération) dated October 10, 2017 (which contains, in particular, the summary of the Prospectus) to which you are invited to refer to. Copies of the Prospectus are available on the AMF website (www.amf-france.org) as well as on the Company's website (www.theranexus.com).

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Franck Mouthon

Co-founder and Chairman and CEO

- Franck Mouthon holds a degree in life sciences from the École Normale Supérieure (ENS-Ulm), a master's degree in biology from the ENS and Paris VI, VII and XI interuniversity programme, and is an alumni of the medical virology programme at the Institut Pasteur.
- Graduate of the HEC Challenge + entrepreneur programme.
- Joined the Life Sciences Department of the French Alternative Energies and Atomic Energy Commission (CEA) in 1995 where he worked on neurodegenerative diseases.
- Founded CEA spin-off Theranexus in March 2013 with Mathieu Charvériat.
- Administrator of France Biotech.









Thierry Lambert

CFO

- Thierry Lambert holds a degree in business administration from Birmingham University and an MBA from INSEAD.
- 5 years of experience at PwC.
- 4 years of experience in syndicated and corporate finance.
- 5 years as Chief Financial Officer for listed companies Naturex and then Safe Orthopaedics.
- Joined Theranexus in 2017.











THERANEXUS: SHIFTING THE LINES AGAINST CENTRAL NERVOUS SYSTEM **DISORDERS** A DISTRUPTIVE APPROACH TO THE CENTRAL NERVOUS SYSTEM THE CAPACITY TO GENERATE DRUG CANDIDATES TO RESPOND TO UNMET NEEDS WITH THREE DEVELOPMENTS ALREADY UNDERWAY, A BLOCKBUSTER POTENTIAL 4 AN AGILE ORGANIZATION WITH CAREFULLY-MANAGED FINANCING NEEDS SHORT AND MID-TERM VALUE CREATION BACKED BY AN INNOVATIVE PLATFORM



A French biotech that specializes in the central nervous system

A DISTINCTIVE BUSINESS MODEL

- AN ATTRACTIVE PROFILE within the Biotech sector
- Higher likelihood of **SUCCESS**
- **FASTER** access to the market...
- ... at LOWER COSTS

AN ESTABLISHED PORTOFOLIO

- 3 DRUG CANDIDATES*
- BLOCKBUSTER POTENTIAL
- STRATEGIC MARKETS for pharmaceutical laboratories

^{* 1} in phase II and 2 ready to enter into clinical development

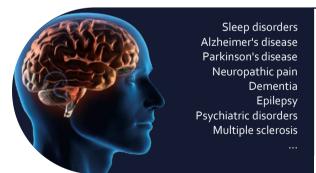




Central Nervous System disorders are one of the 1st causes of disability around the world

More than **one billion** [1] **people** are affected, i.e. **nearly 1 person** in 5

The cost in treating these disorders around the world is estimated at **more** than €2,000 billion per year, i.e. the equivalent of the gross domestic product of a country like France [1]; [2]



Unmet medical needs for many major conditions



INDUSTRY INNOVATION FALTERS WHILE MEDICAL NEEDS ARE DRAMATICALLY GROWING

Growing demand for treatment

Prevalence is correlated to to AGING

UNMEET NEEDS are still very high (non-curative treatments, not all symptoms are relieved)



Value-added offers are increasingly rare

AGING ARSENAL OF TREATMENTS

42 generic CNS drugs between now and 2030

HIGH EXPECTATIONS FROM INDUSTRY

to see medical portfolios renewed

LOW SUCCESS RATE

in the development of new CNS drugs







CNS DRUGS:

1 molecule for **1** action on **1** family of cells (**neurons**)



THERANEXUS DRUG CANDIDATES:

2 separate molecules combined for 2 actions on 2 families of cells (neurons + glial cells)



INNOVATION: COMBINATIONS OF MOLECULES TO OPTIMIZE THE EFFICACY OF STANDARD OF CARE TREATMENTS





THERANEXUS PLATFORM: PROPRIETARY, SCALABLE & VERSATILE

CNS DRUGS GLIAL CELL MODULATOR DRUG SEEN AS DRUG REPOSITIONED THE 1ST LINE-TREATMENT **AS A MODULATOR** Condition with a strong unmet need for improved efficacy (with the current arsenal of therapeutics) Theranexus Action Optimization library of CNS drugs on the of the glial 27 glial cell 1st line- treatment neuron network modulators for CNS* conditions **THN** XXX

3 major advantages



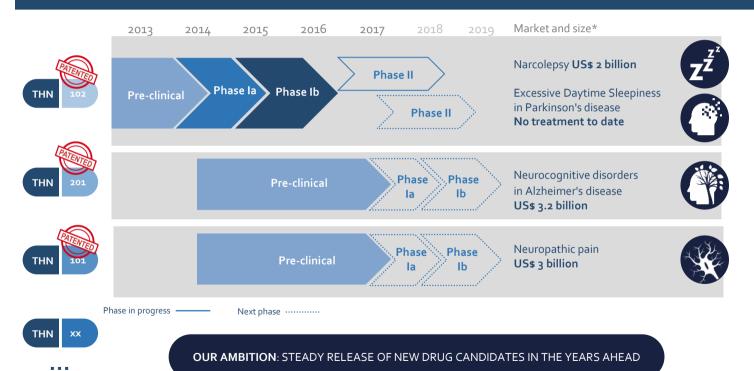




Higher probability of success, greater flexibility and shorter time-to-market



3 DRUG CANDIDATES IN JUST 4 YEARS







THERANEXUS: SHIFTING THE LINES AGAINST CENTRAL NERVOUS SYSTEM DISORDERS A DISTRUPTIVE APPROACH TO THE CENTRAL NERVOUS SYSTEM THE CAPACITY TO GENERATE DRUG CANDIDATES TO RESPOND TO UNMET NEEDS WITH THREE DEVELOPMENTS ALREADY UNDERWAY, A BLOCKBUSTER POTENTIAL 4 AN AGILE ORGANIZATION WITH CAREFULLY-MANAGED FINANCING NEEDS SHORT AND MID-TERM VALUE CREATION BACKED BY AN INNOVATIVE PLATFORM



TWO MAJOR FAMILIES OF CELLS IN THE CENTRAL NERVOUS SYSTEM (CNS)

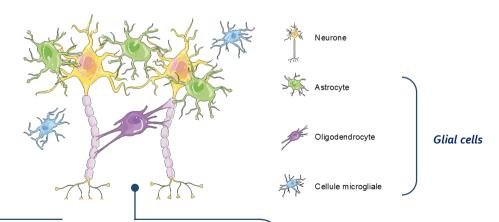
Neurons:

Cellular components that control our emotions, our mental activity, our memory, our senses, the way we feel pain, and even our motricity, etc.

Glial cells:

Able to respond quickly to neuron needs by providing the molecules needed for their metabolism

Astrocytes play a key role in neuronal communication



NEURONS DO NOT WORK INDEPENDENTLY BUT AS PARTS OF A CELLULAR CONTEXT





A DISCOVERY STEMMING FROM 10 YEARS OF RESEARCH

NEURON CENTRIC APPROACH

Suboptimal glial network

Limits the efficacy of the CNS drug



Neuronal and glial network with outside stimulation (psychotropic drug) leading to the overdevelopment of the glial network (suboptimal) which limits the efficacy of the drug



Optimal glial network



Astrocyte at rest



Neuron activated



CNS drug





by the psychotropic drug



Theranexus

Neuronal and glial network with outside stimulation

and connexin modulator (drug candidate)

Suboptimal glial network



Glial network close

to natural state

Improves the

efficacy of the CNS

drug

Connexin modulator

OPTIMIZED SIZE FOR THE GLIAL NETWORK (ASTROGLIAL CELLS) WHICH IS FUNDAMENTAL FOR REGULAR NEURONAL ACTIVITY





TRANSFORMING RESEARCH TO INNOVATION

PRINCIPLE:

Enhance neuron action with the modulation of glial cells

APPLICATION:

Combine medication that targets neurons with a medication that optimizes neuroglial interaction

Non-neural networks Astrocyte Connexin Connexin modulator Astrocyte X Connexin modulator CNS drug (Psychostimulant, antidepressant, anxiolytic, etc.) . Drugs affecting the CNS **Neural networks**

The modulation of glial connexins optimizes the neuroglial interface to improve the way in which neurons react to CNS drugs

Giaume et al., Nat Rev Neurosci, 2010 Rouach et al., Science, 2008

Picoli et al., J Biomol Screen, 2012 Duchêne et al., Sleep, 2016 Charvériat et al. Front Cell Neuro, 2017

Action on neurotransmitter systems

THE CHALLENGE: MAXIMISE NEURON RESPONSE TO EXISTING DRUGS BY TARGETING THE ENVIRONMENT





- THERANEXUS: SHIFTING THE LINES AGAINST CENTRAL NERVOUS SYSTEM DISORDERS
- 2 A DISTRUPTIVE APPROACH TO THE CENTRAL NERVOUS SYSTEM
- THE CAPACITY TO GENERATE DRUG CANDIDATES TO RESPOND TO UNMET NEEDS WITH THREE DEVELOPMENTS ALREADY UNDERWAY, A BLOCKBUSTER POTENTIAL
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DRUG CANDIDATES SELECTED FOR THEIR CLINICAL AND ECONOMIC VALUE



4 selection criteria

- Patent-free CNS drug as the 1st-line treatment
- Demonstrated efficacy
- Clear room for improvement
- PoC within reach

IN VIVO SELECTION OF THE BEST COMBINATION of CNS drugs selected with a glial cell modulator





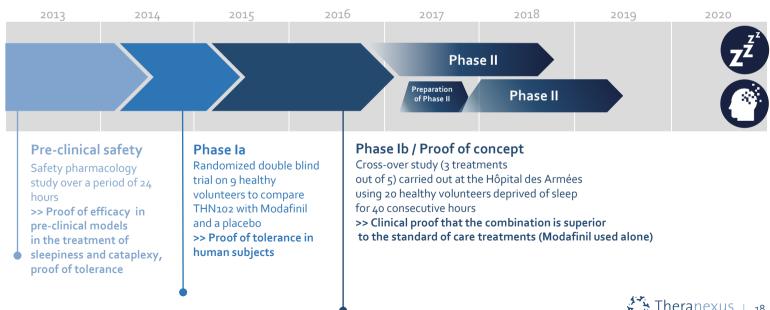
THN102: A DRUG CANDIDATE FOR 2 CONDITIONS

Modafir	nil Fl	ecainide
ZZ Narcolepsy		Parkinson's disease
Excessive daytime sleepiness ± cataplexy	SYMPTOMS	Excessive daytime sleepiness
Orphan disease: 300,000+ patients (France, Germany, United Kingdom, Italy, Spain, United States)	PREVALENCE	Close to 1 million patients (G7) 30 to 50% of patients diagnosed with Parkinson's
Modafinil 4 drugs on the market, none of which fully address both symptoms	STANDARD OF CARE TREATMENT	NONE No approved treatment to date
US\$ 2 billion (annual treatment cost/ patient of around US\$ 20k)	MARKET	-
7 drug candidates undergoing clinical trials None of which aim to prove their superiority over the standard of care treatments	RESEARCH	4 drug candidates undergoing clinical trials, all of which only target neurons.



THN102: THE MOST ADVANCED COMBINATION OF THE PORTFOLIO



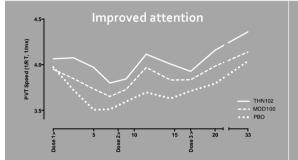




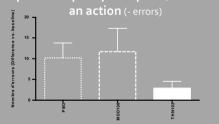
THN102: SUPERIOR RESULTS OF THE COMBINATION OVER MODAFINIL ALONE AT THE END OF PHASE IB

EFFICACY

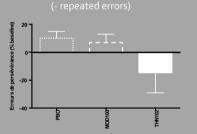
(sleep deprivation) vs placebo and Modafinil



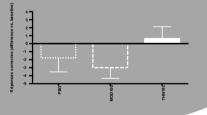
Improved capacity to repress/moderate



Improved mental flexibilit



Improved working memory



TOLERANCE vs Modafinil

	MOD 100 (n=12)	THN102 (n=35)	
Fatigue	83%	70%	
Headache	50%	23%	
Nausea	33%	14%	

SIGNIFICANT IMPROVEMENT IN
AWARENESS AND ATTENTION AND
GOOD TOLERANCE OF THE PRODUCT





THN102: 1ST DRUG CANDIDATE IN PHASE II

BEST IN CLASS

Modafinil

Flecainide

IN CLASS

ZZ

Narcolepsy

Launch of the study Phase IIa in 2016

Double blind trial to compare 3 treatments:

Modafinil 300 mg/day alone or combined with two doses of FLECAINIDE, 3 and 27 mg/day

Cross-over study over three periods: each patient is randomly given each of the three treatments over three periods of two weeks each

Primary efficacy endpoint: ESS (Epworth Sleepiness Scale)

Trial carried out on 42 narcoleptic patients 20 patients already recruited on 3 sites

Results expected in Q₃ 2018 (Narcolepsy)



Excessive daytime sleepiness in patients diagnosed with **Parkinson's**

Regulatory package ready for a start to Phase IIa in Q4 2017

Double blind trial to compare 2 doses of THN102 to the placebo

Cross-over study over three periods: each patient is randomly given THN102 or the placebo over three periods of two weeks each

Primary efficacy endpoint : ESS (Epworth Sleepiness Scale)

Study carried out on **60 patients** diagnosed with Parkinson's (some of whom possibly in the United States)

Results expected in Q2 2019 (Parkinson's)



THN102: DRUG CANDIDATE AS A FIRST-LINE TREATMENT

4 drugs on the market:











⊅MOD

 \rightarrow SOX/PIT. 1 dose / day N/A

Yes

Yes

		Provigil® Modafinil	Nuvigil® ArModafinil	Xyrem® SOX	Wakix® Pitolisant
	Sleepiness	Yes	Yes	Yes	Yes
Marketing authorization label	Cataplexy	No	No	Yes	Yes
(1) (2) (3) (4)	Administration	2 doses / day	1 dose / day	2 doses / night	1 dose / day
	ANSM (5) drug database	N/A	- (Class III	N/A
HAS* efficacy/safety	ratio ^{(1) (3) (4)}	High	-	High	Moderate
Price in the EU (US\$/ (average in 5 countri		2,600	-	11,850	12,250
Price in the US (US\$/year) (7)		36,000	8,600	120,500	-
Sales peak (US\$ million) ⁽⁸⁾		2,10	00	1,108	ND

BLOCKBUSTER POTENTIAL, **EFFECTIVE ON THE TWO MAIN SYMPTOMS**

High

Estimate of benefits/risks of products currently on the market compared with the target profile for THN102 and the annual cost of treatments on the market (US\$ - rounded figures) * French National Authority for Health



⁽¹⁾ Transparency Commission Recommendation, CT-4626

⁽²⁾ FDA Label

⁽³⁾ Transparency Commission Recommendation, CT-2921

⁽⁴⁾ Transparency Commission Recommendation, CT-14970

⁽⁵⁾ ANSM drug database at 15/06/2017, includes GHB and its salts

⁽⁶⁾ France: CNAMTS; UK: BNF; Italy: AIFA; Spain: MSSSI; Germany: Apoteke

⁽⁷⁾ US Rx List internet drug index

⁽⁸⁾ Jazz Pharmaceuticals Investor Presentation of o6/o6/2017



THN201 & THN101: TWO NEW MAJOR CONDITIONS TARGETED WITH VERY HIGH INDUSTRIAL STAKES

Neurocognitive disorders linked to Alzheimer's disease		THN 101 Neuropathic pain
Impairment of memory, judgment, orientation	SYMPTOMS	Permanent background pain, with occasional stabbing pains, burning sensation and twinges
15 million patients in 2015 (G7) 19 million between now and 2030 45% undiagnosed patients	PREVALENCE	70 million patients (Europe, US, Japan)
DONEPEZIL	STANDARD OF CARE TREATMENT	AMITRIPTYLINE
US\$3.2 billion (annual cost of treatment/patient US\$4-5k)	MARKET	US\$3 billion (annual cost of treatment/ patient US\$3-4k)
23 drug candidates in clinical trials	RESEARCH	32 drug candidates in clinical trials



THN201 & THN101: TWO NEW MAJOR CONDITIONS TARGETED WITH VERY HIGH INDUSTRIAL STAKES

DONEPEZIL | MEFLOQUINE



Target profile:

Label for neurocognitive disorders linked to Alzheimer's

Performance target: THN201 versus DONEPEZIL:

- Improved cognitive function
- Delayed need for institutionalization

AMITRIPTYLINE MEFLOQUINE



Target profile:

Label for neuropathic pain

Performance target: THN101 versus AMITRIPTYLINE:

- Reduction in pain intensity
- Increase in the number of patients experiencing a 50% reduction in pain
- Better tolerance profile

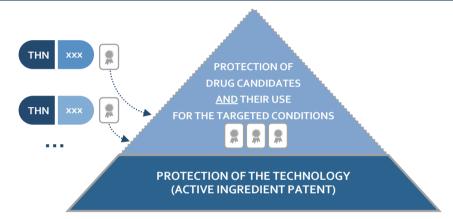
PROOF OF SUPERIORITY IN PRE-CLINICAL MODEL AND IN TERMS OF **TOLERANCE**

2017 2018 2019 2020 Pre-clinical Phase Ia Phase Ib / PoC

CLINICAL PROOF THAT THE COMBINATION IS SUPERIOR TO THE STANDARD OF CARE TREATMENT TARGETED IN Q2 2019



INNOVATION THAT IS FIRMLY PROTECTED BY AN INTELLECTUAL PROPERTY STRATEGY



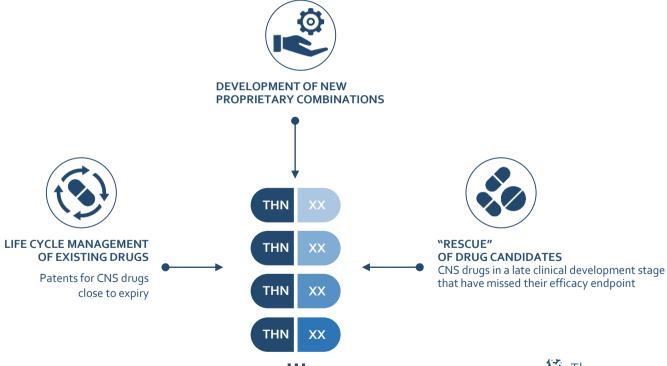
	Family of patents 1 (platform patent)	Family of patents 2	Family of patents 3	Family of patents 4
Products	Anti-connexin agent + psychotropic molecule	THN201 Dementia	THN102 Narcolepsy / Parkinson's	THN101 Neuropathic pain
Expiry date	2029	2032	2034	2036
Geographic regions targeted			<u> </u>	

FREEDOM TO EXPLOIT DRUG CANDIDATES
FREEDON TO DEVELOP NEW COMBINATIONS





A GLOBAL STRATEGY ADAPTED TO THE NEEDS OF PHARMACEUTICAL COMPANIES





1 THERANEXUS: SHIFTING THE LINES AGAINST CENTRAL NERVOUS SYSTEM DISORDERS
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A COMPLEMENTARY TEAM IN AN AGILE ORGANIZATION



Franck Mouthon CHAIRMAN & CEO









Werner Rein CMO









Mathieu Charvériat CSO









Julien Veys CBDO





Thierry Lambert CFO







High profile partners

















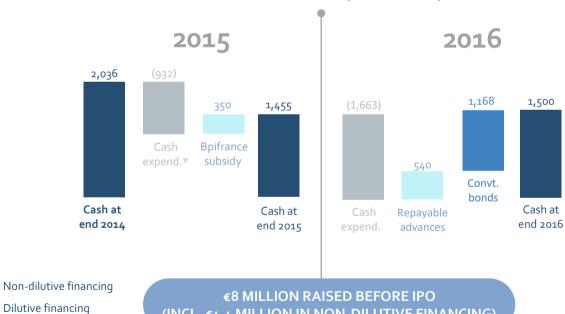


11 EMPLOYEES DEDICATED TO KEY FUNCTIONS



CONTROLLED CASH EXPENDITURE

2015 & 2016 cash flows (in € thousands)



(INCL. €4.4 MILLION IN NON-DILUTIVE FINANCING)





SUCCESS OF IPO ON EURONEXT GROWTH: €20,4 MILLION RAISED

IPO

First Listing 30.10.2017

Share price set : €15,50

Market capitalization: €47,5 million

Issued shares : 1.315.947

Capital increase of €20,4 million

Total shares of 3.119.143

Euronext Growth

ISIN: FR0013286259 Mnemo: ALTHX













GOVERNANCE & SHAREHOLDERS

BOARD OF DIRECTORS



Franck Mouthon Theranexus, Chairman and CEO Theranexus



Mathieu Charvériat Theranexus, Deputy CEO Theranexus



Dominique Costantini Independent director OSE IMMUNO *



Luc-André Granier Independent director







AURIGA Auriga, represented by Florian Denis



cea investissement CEA-Investissement, represented by **Celia Hart**



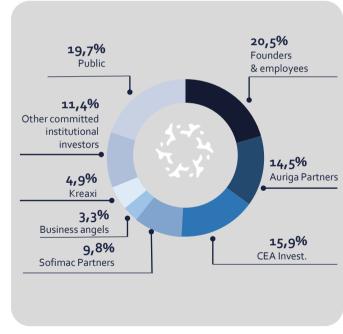
SOFIMAC partners Sofimac Partner, represented





Kreaxi, represented by Gwenaël Hamon (non-voting member)

SHAREHOLDERS





THERANEXUS: Shifting the lines against central nervous system disorders A DISTRUPTIVE APPROACH TO THE CENTRAL NERVOUS SYSTEM 2 THE CAPACITY TO GENERATE DRUG CANDIDATES TO RESPOND TO UNMET NEEDS WITH THREE DEVELOPMENTS ALREADY UNDERWAY, A BLOCKBUSTER POTENTIAL AN AGILE ORGANIZATION WITH CAREFULLY-MANAGED FINANCING NEEDS 4 SHORT AND MID-TERM VALUE CREATION BACKED BY AN INNOVATIVE PLATFORM



STRONG INTEREST AMONG INDUSTRY PLAYERS FOR THE FIRST 3 CONDITIONS TARGETED

CONDITION	DATE	SELLER	BUYER	PROFILE	DEVELOPMENT STAGE	UP FRONT (US\$ m)	MILESTONES (US\$ m)	ROYALTIES (US\$ m)
Narcolepsy	2014 2013	Aerial Concert	Jazz Jazz	NCE ^[1] LCM ^[2]	Phase II Pre-clinical	125 5	272 115	NC NC
Neuropathic pain	2015 2015 2012	Convergence Spinifex Concert	Biogen Novartis Avanir	NCE NCE LCM	Phase II Phase II Phase I	200 200 NC	475 500 200	NC NC NC
Alzheimer's disease	2016 2013 2012	Chase Pharma Lundbeck Adamas	Allergan Otsuka Forest	Combination NCE Combination	Phase I/II Phase II Phase II	125 150 60	875 675 95	NC NC NC
Other neurological disorders	2014	Avanir	Otsuka	Combination	Market	3,500		-

TURNING POINT IN VALUE AT THE END OF PHASE II
(BETTER RATIO OF DEVELOPMENT COSTS
TO IMMEDIATE AND SUBSEQUENT REVENUES)







THN102: A FIRST SOURCE OF VALUE CREATION





ACADIA® Pharmaceuticals A DRUG CANDIDATE FOR 2 CONDITIONS

- + POTENTIAL PARTNERS
- + PROBABILITY OF SIGNING AN AGREEMENT
- + PROBABILITY OF MAXIMISING VALUE

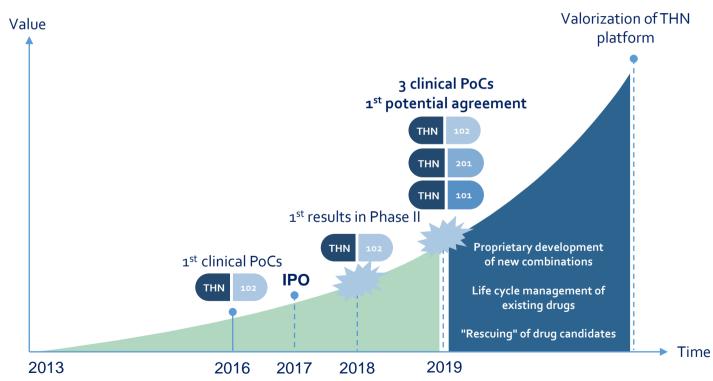
OPPORTUNITY FOR STRONG VALUE CREATION BETWEEN NOW AND 2019

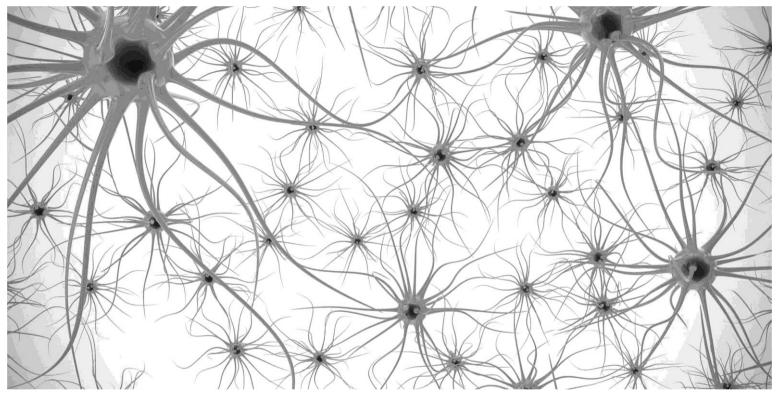
Boehringer Ingelheim





A DUAL SOURCE OF VALUE CREATION IN THE SHORT AND MEDIUM TERM



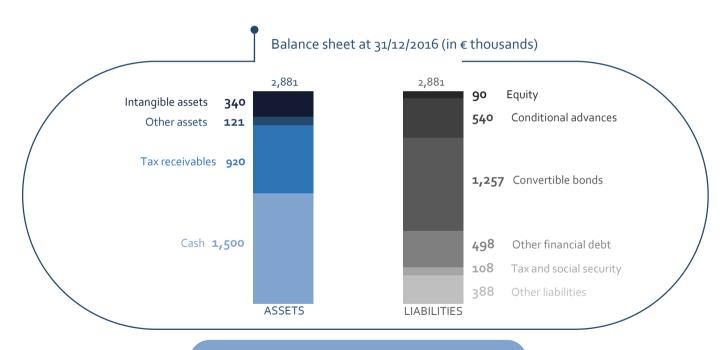




APPENDIX



BALANCE SHEET STRUCTURE



A HEALTHY AND ROBUST FINANCIAL STRUCTURE





Epworth Sleepiness Scale (ESS)

Situation Please tick box	0 No chance of dozing	1 Slight chance	2 Moderate chance	3 Definitely would doze
Sitting and reading		□ fr	F	
Watching TV		[□] ≦		
Sitting inactive in a public place (e.g. Theatre or a meeting)			S	
As a passenger in a car for an hour without a break				
Lying down to rest in the afternoon when circumstances permit				
Sitting and talking to someone				
Sitting quietly after lunch without alcohol		- Ari	- Ari	
In a car, while stopped for a few minutes in traffic		\$ B B B B B B B B B B B B B B B B B B B		

- Scored from o (no sleepiness) to 24 (highly severe sleepiness)
- Below 8: you have a healthy level of daytime sleepiness.
- From 9 to 14: you have a sleep debt, you need to improve your sleep hygiene.
- More than 15: you have a high level of excessive daytime sleepiness. You need to improve your sleep hygiene and consult your doctor for further medical help
- The average score for an untreated patient with narcolepsy is 18



THN102 competitive landscape: 7 drug candidates for the treatment of narcolepsy undergoing clinical trials

7 Z				
Company	Molecule	Brand	Dev. stage	Mechanism of action
Jazz pharma	JZP-110	-	P ₃	NA / DA recapture inhibitor
Jazz pharma	JZP-258	-	P ₃	Xyrem® with reduced sodium content
Avadel	FT218	-	P ₃	Xyrem with sustained release
Taisho pharma	TS-091	-	P ₂	HIS H ₃ receptor inverse agonist
Balance Tptx	BTD-001	-	P ₂	GABA-A blocker
Jazz pharma	JZP-507	-	P1	Xyrem® with reduced sodium content
Jazz pharma	JZP-386	-	P1	Deuterated Xyrem

Principal drugs and drug candidates indicated for the treatment of narcolepsy (source: informa Medtrack – June 2017) – Com: marketed; GABA: gamma-aminobutyric acid; HIS: histamine; NA: noradrenaline; DA: dopamine; 5HT: serotonin.





THN102 competitive landscape: 4 drug candidates for the treatment of excessive daytime sleepiness in Parkinson's disease undergoing clinical trials

873				
Company	Molecule	Brand	Dev. stage	Mechanism of action
Jazz pharma	JZP-110	-	P ₂	NA / DA recapture inhibitor
Benevolent Al	Bavisant	-	P ₂	HIS H ₃ receptor agonist
Novartis	LML134	-	P1	HIS H ₃ receptor inverse agonist
Eli Lilly	LY3154207	-	P1	RD1 allosteric modulator

Principal drugs and drug candidates indicated for the treatment of excessive daytime sleepiness in Parkinson's disease (informa Medtrack – clinicaltrials.gov July 2017); HIS: histamine; NA: noradrenaline; DA: dopamine; D1R: dopamine receptor D1.

NO PROJECTS AT A LATER STAGE THAN THN102 COMBINATIONS AND DRUG CANDIDATES THAT ONLY TARGET NEURONS

