



*Innovating
antibodies,
improving lives*

Annual General Meeting

Copenhagen, Denmark

March 28, 2017





*Innovating
antibodies,
improving lives*

Welcome

Mats Pettersson
Chairman of the Board





Chairman of the AGM

Jørgen Kjergaard Madsen



Agenda

| Agenda Item | Speaker |
|---|--|
| 1. Report by the Board of Directors on the Company's activities during the past year | Mats Pettersson, <i>Chairman of the Board</i> , Jan van de Winkel, <i>CEO</i> |
| 2. Presentation and adoption of the audited Annual Report 2016 and resolution to discharge the Board of Directors and the Executive Management from liability | David Eatwell, <i>CFO</i> , Jørgen Kjergaard Madsen, <i>Chairman of the AGM</i> |
| 3. Resolution on the distribution of profits as recorded in the adopted Annual Report | Jørgen Kjergaard Madsen, <i>Chairman of the AGM</i> |
| 4. Election of the Board of Directors | Mats Pettersson, Jørgen Kjergaard Madsen |
| 5. Election of Auditors | Jørgen Kjergaard Madsen |
| 6. Proposals from the Board of Directors | Jørgen Kjergaard Madsen |
| 7. Authorization of the Chairman of the AGM | Jørgen Kjergaard Madsen |
| 8. Any other business | Jørgen Kjergaard Madsen, Mats Pettersson, Jan van de Winkel, David Eatwell |



Introduction

Mats Pettersson

Chairman of the Board



Forward Looking Statement

This presentation contains forward looking statements. The words “believe”, “expect”, “anticipate”, “intend” and “plan” and similar expressions identify forward looking statements. All statements other than statements of historical facts included in this presentation, including, without limitation, those regarding our financial position, business strategy, plans and objectives of management for future operations (including development plans and objectives relating to our products), are forward looking statements. Such forward looking statements involve known and unknown risks, uncertainties and other factors which may cause our actual results, performance or achievements to be materially different from any future results, performance or achievements expressed or implied by such forward looking statements. Such forward looking statements are based on numerous assumptions regarding our present and future business strategies and the environment in which we will operate in the future. The important factors that could cause our actual results, performance or achievements to differ materially from those in the forward looking statements include, among others, risks associated with product discovery and development, uncertainties related to the outcome of clinical trials, slower than expected rates of patient recruitment, unforeseen safety issues resulting from the administration of our products in patients, uncertainties related to product manufacturing, the lack of market acceptance of our products, our inability to manage growth, the competitive environment in relation to our business area and markets, our inability to attract and retain suitably qualified personnel, the unenforceability or lack of protection of our patents and proprietary rights, our relationships with affiliated entities, changes and developments in technology which may render our products obsolete, and other factors. Further, certain forward looking statements are based upon assumptions of future events which may not prove to be accurate. The forward looking statements in this document speak only as at the date of this presentation.

Our Core Purpose

A silhouette of a person running, viewed from behind, against a teal background. The person is wearing a tank top and leggings. The background shows a blurred landscape with trees and hills.

**To improve the lives
of patients by creating
and developing
innovative antibody
products**

Genmab At-A-Glance

Our Vision

By 2025, our own product has transformed cancer treatment and we have a pipeline of knock-your-socks off antibodies



2 marketed products generating royalty income



2 exciting proprietary clinical programs



2 proprietary next generation technologies for robust pre-clinical pipeline



Solid Financial Base

Key Achievements 2016

DARZALEX® (daratumumab)

- EU conditional marketing authorization in double-refractory MM
- Positive Phase III data in relapsed/refractory MM
- Received 2nd Breakthrough Therapy Designation
- US approval in relapsed/refractory MM in combination w/other therapies – EU submission under review
- Regulatory filing in Japan for relapsed/refractory MM
- USD 160M in milestones under Janssen collaboration
- USD 572M net sales by Janssen
 - Resulting in DKK 458M in royalties from Janssen

Arzerra® (ofatumumab)

- Phase III studies in relapsing MS started by Novartis
- Label expanded in US & EU for ofatumumab plus fludarabine and cyclophosphamide in relapsed CLL
- US approval in maintenance CLL

Other Key Highlights

- DuoBody commercial agreement with Gilead Sciences
- 2 DuoBody® programs in clinical development by Janssen
- First study of HuMax®-AXL-ADC started
- Improved revenue by DKK 683M vs 2015

Teamwork is Vital to Success





Our Strong Pipeline Will Create Future Success

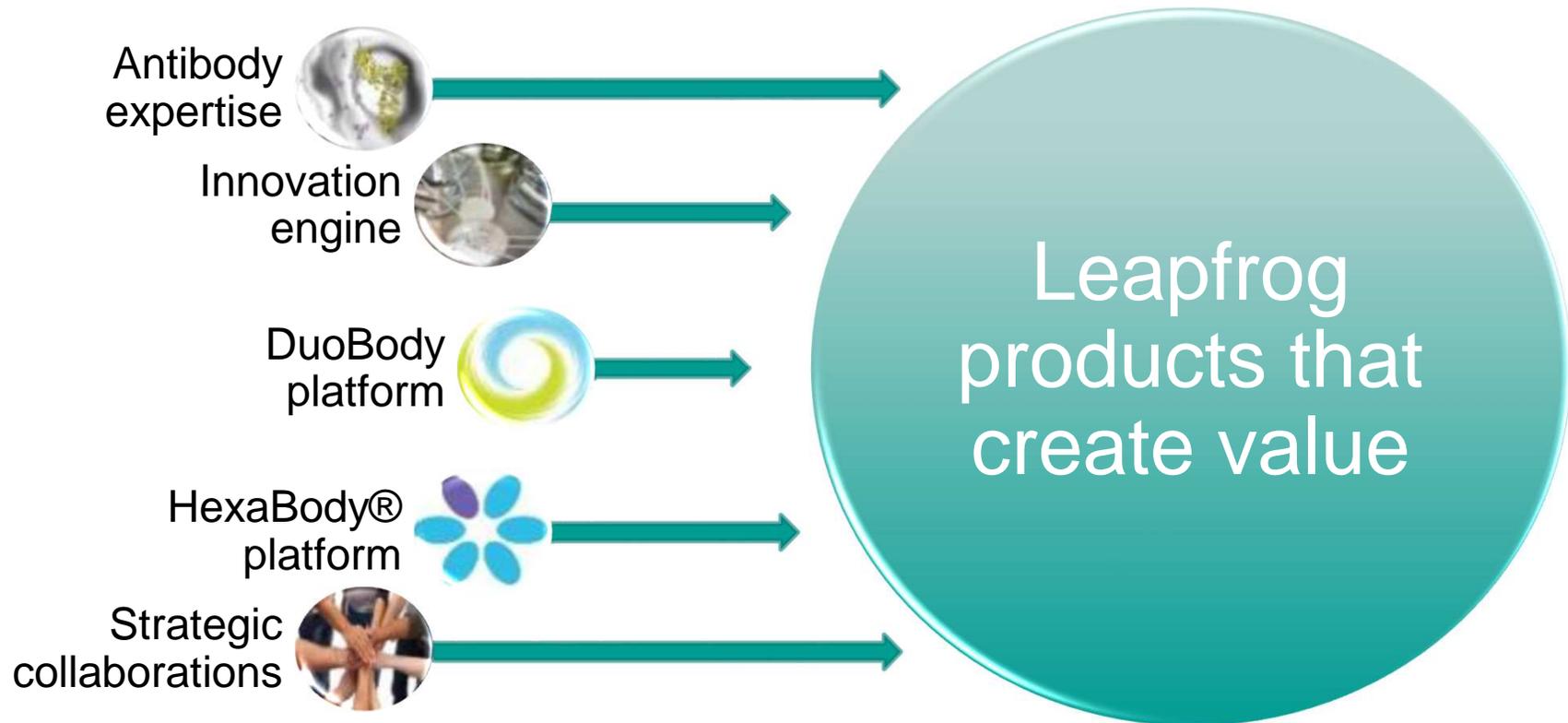
Jan van de Winkel, PhD

President & Chief Executive Officer

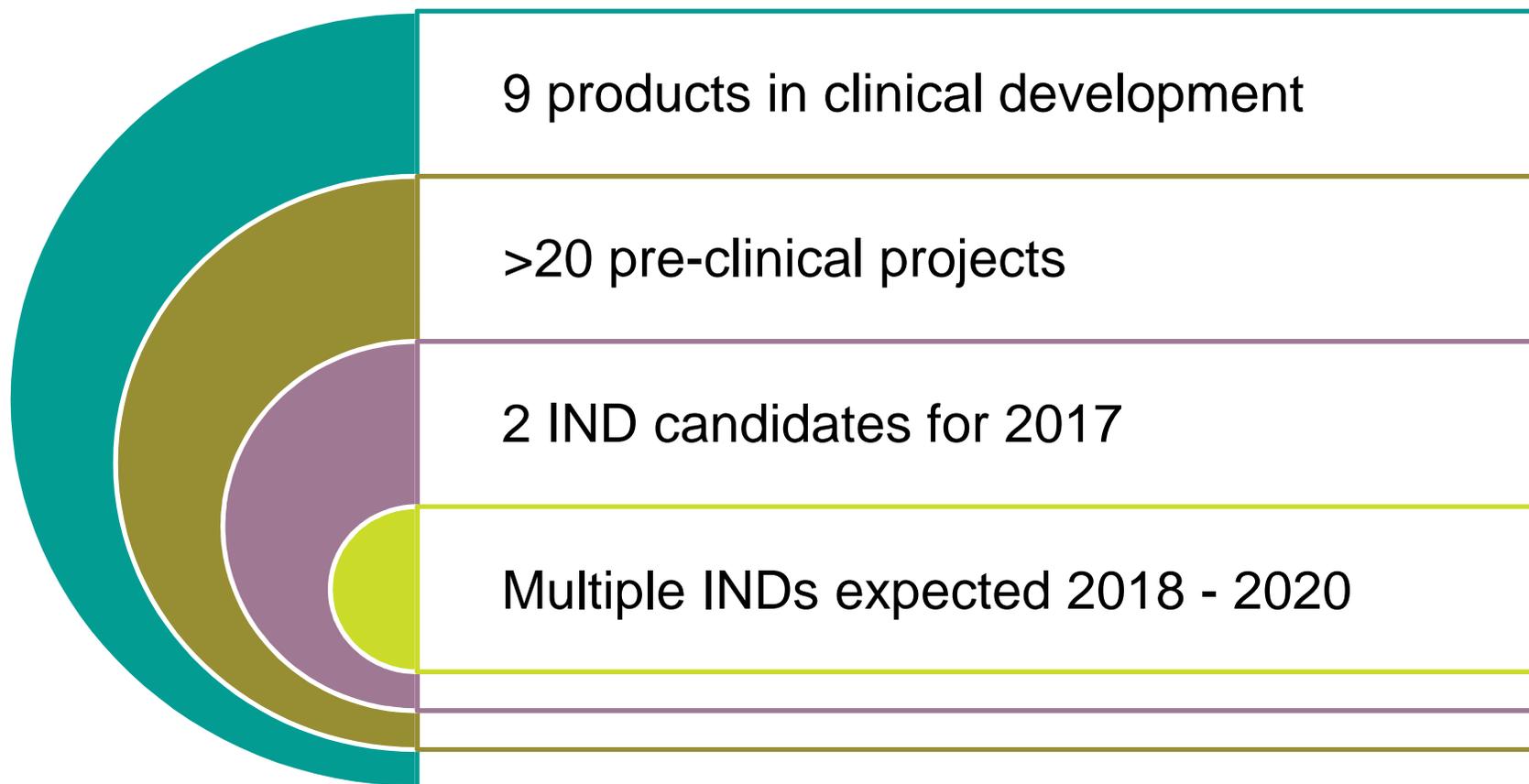


Antibody Innovation Powerhouse

Creating Value for Stakeholders



Exciting Pipeline - The Value of the Future



Daratumumab (DARZALEX®)



First-in-class antibody targeting CD38

Marketed as monotherapy in US and EU for double refractory MM

Approved in US in combination with Revlimid® & dex or Velcade® & dex for relapsed / refractory MM

2 FDA Breakthrough Therapy Designations

Clinical studies ongoing or announced in MM, NHL, NKT-cell lymphoma, MDS, and solid tumors

Blockbuster potential

Collaboration with Janssen Biotech

DARZALEX Development Continues

Key studies ongoing in MM

- Smoldering MM
- Front line MM in combination with other drugs
- Relapsed or refractory MM in combination with other novel drugs
- Subcutaneous formulation

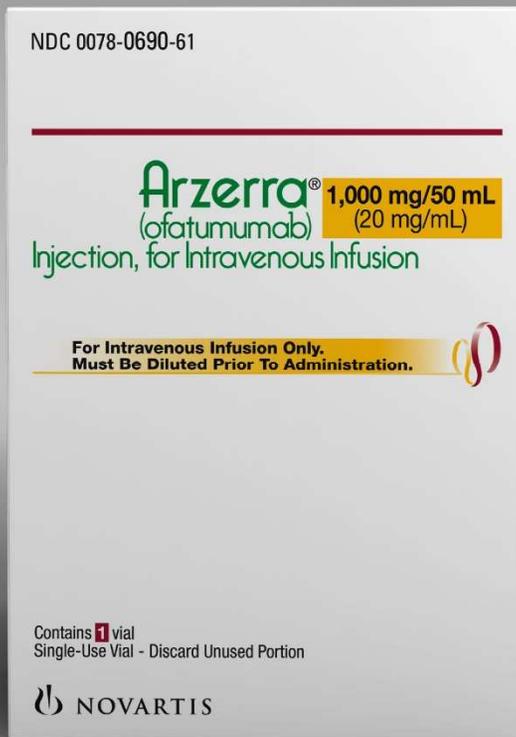
Potential in other hematological cancers

- Mantle cell lymphoma
- Acute myeloid leukemia
- Acute lymphoblastic leukemia
- Myelodysplastic syndrome
- Waldenstrom's macroglobulinemia
- NKT-cell lymphomas

Potential in solid tumors

- NSCLC
- Colon cancer
- Head & neck cancer
- Pancreatic cancer
- Triple negative breast cancer
- Virus associated cancers

Ofatumumab (Arzerra®)



Human antibody targeting CD20

Two Phase III studies in relapsing MS started

Potential MS Advantages: Dosing
Better disease management, subcutaneous dosing

Potential MS Advantages: Attributes
Low immunogenicity, manageable safety profile in Phase I/II studies

Marketed in various territories for certain CLL indications*

Collaboration with Novartis
Cash flow positive for Genmab

*See local country prescribing information for precise indications

Subcutaneous Ofatumumab Development in MS

2 Phase III studies in relapsing MS comparing subcutaneous ofatumumab to teriflunomide

- 900 patients per study
- Expect studies to be completed in 2019
- If data is positive, Novartis plans regulatory filings in 2019

Potential to become best-in-class anti-B-cell therapy for MS

- Better disease management
- Manageable safety profile in Phase I/II studies and low immunogenicity
- Subcutaneous dosing
- Significant market potential

Tisotumab vedotin

Fully human antibody-drug conjugate (ADC)

Targets Tissue Factor (TF)

Therapeutic potential in broad range of solid tumors

2 Phase I/II studies ongoing in seven solid tumors

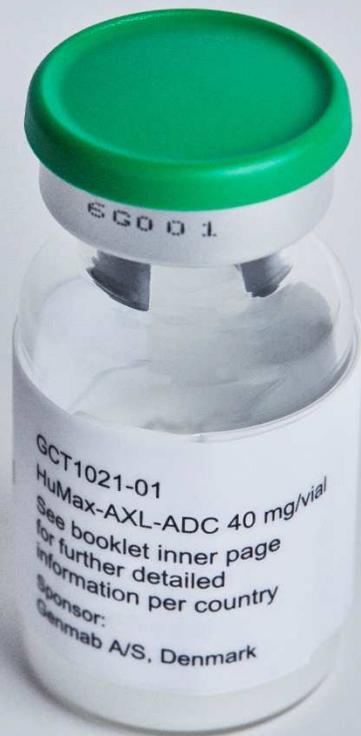
Encouraging preliminary safety & efficacy data

ADC technology licensed from Seattle Genetics*



*Seattle Genetics holds option to co-own program [following Phase I/II clinical evaluation]

Clinical Projects: HuMax-AXL-ADC



Human ADC

Targets the tumor-associated antigen AXL

Therapeutic potential in solid tumors

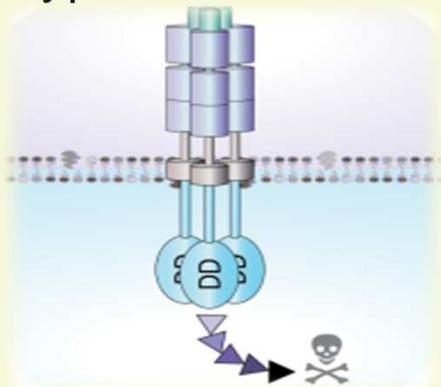
First-in-human Phase I/II study

ADC technology licensed from Seattle Genetics

Next in the Clinic: 2017 IND Candidates

HexaBody-DR5/DR5

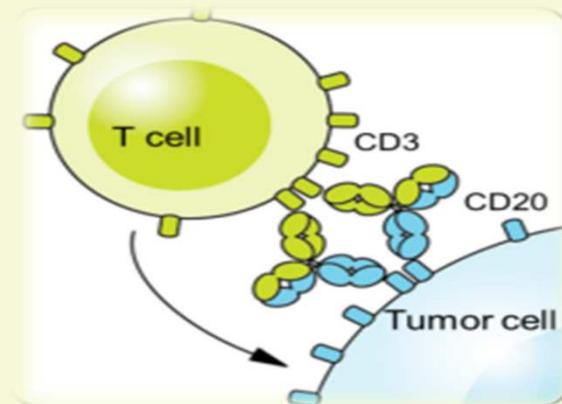
- Targets DR5 for Cancer Therapy
- Potentially effective in multiple tumor types



DR5 activation induces cell death

DuoBody-CD3xCD20

- Humanized bispecific antibody
- Activates T cells to kill CD20⁺ tumor cells



Genmab Proprietary Innovative Pipeline

Potential INDs in next 4 years

| Technology | product | 2017 | 2018 | 2019 | 2020 |
|----------------------------------|------------------|------|------|------|------|
| HexaBody | HexaBody-DR5/DR5 | ■ | | | |
| DuoBody | DuoBody-CD3xCD20 | | ■ | | |
| HexaBody | HexaBody-X | | | | ■ |
| DuoBody-ADC | DuoBody-XxY-ADC | | | | ■ |
| DuoBody | DuoBody-CD3xX | | | ■ | |
| Immuno-Oncology [>10 progr.]* | DuoBody-A | | ■ | | |
| | DuoBody-B | | | ■ | |
| | DuoBody-C | | | ■ | |
| | DuoBody-D | | | | ■ |
| | DuoBody-E | | | | |

*: Aduro Biotech & BioNTech

Pre-clinical pipeline targeting at least 4 leapfrog INDs in next 4 years

Proprietary Technologies Fuel Differentiated Pipeline

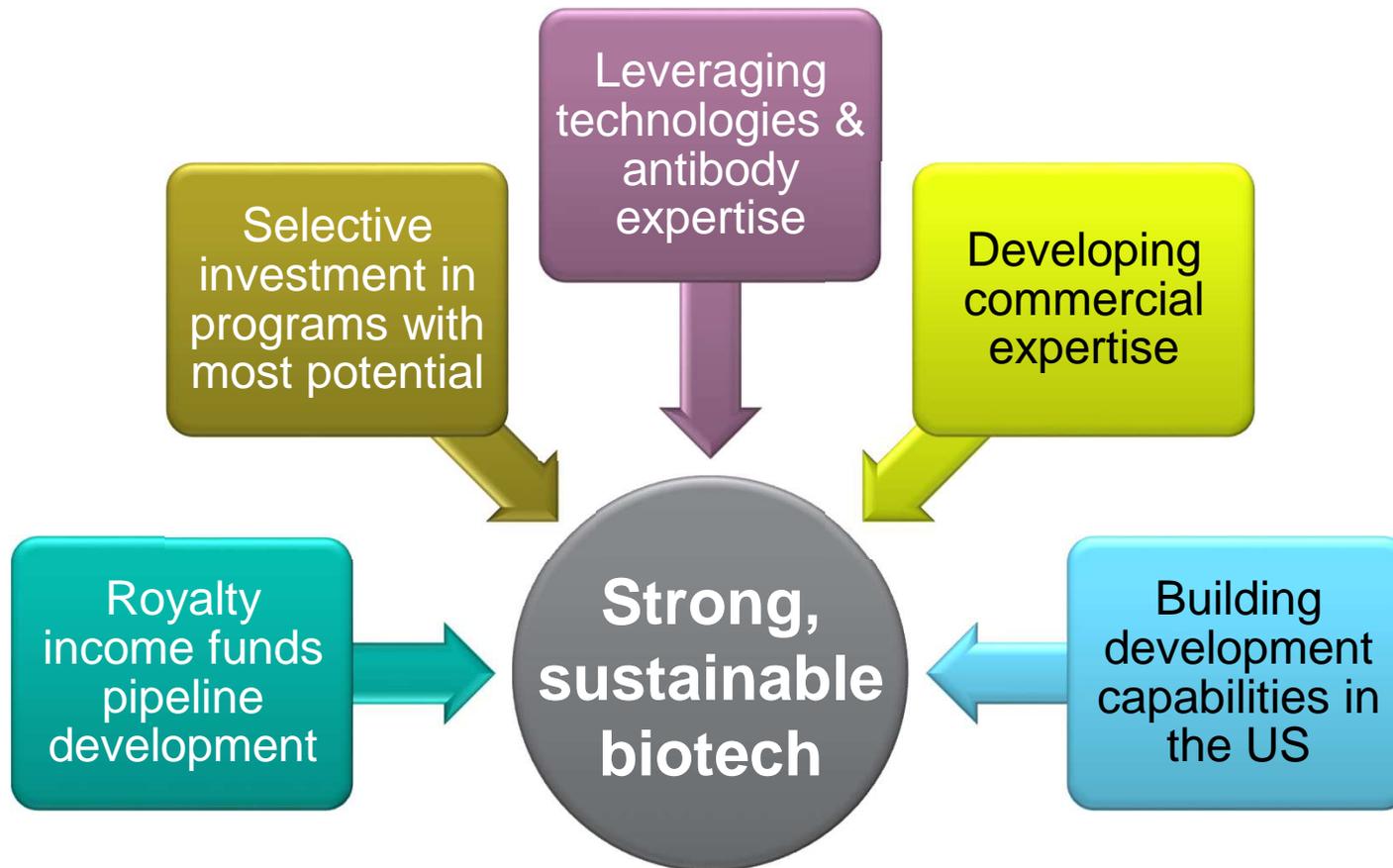


- Bispecific antibody platform
- Potential in cancer, autoimmune, infectious & central nervous system diseases
- New collaboration in 2016 with Gilead Sciences
- Multiple ongoing commercial collaborations
- First DuoBody products in clinical development under collaboration with Janssen



- Enhanced potency antibody technology platform
- Broadly applicable technology builds on natural antibody biology
- Creates innovative products in cancer & infectious diseases
- Multiple ongoing research collaborations

The Way Forward – Controlled Growth



2017 Goals: Maximizing Differentiated Product Portfolio Value

| Priority | ✓ | Targeted Milestone |
|---|---|---|
| Maximize daratumumab progress | | <ul style="list-style-type: none"> » EMA decision & launch in 2nd line+ in multiple myeloma (MM) relapsed / refractory setting » FDA decision in 3rd line MM setting (daratumumab + POM) » Phase III MM interim efficacy analysis in frontline (Alcyone trial) » Start Phase III subcutaneous trial » Start trials in solid tumors and non-MM blood cancers » Report non-MM clinical data |
| Optimize ofatumumab value | | <ul style="list-style-type: none"> » Phase III refractory follicular lymphoma headline results |
| Strengthen differentiated product pipeline | | <ul style="list-style-type: none"> » Phase I/II tisotumab vedotin data » Progress HuMax-AXL-ADC Phase I/II clinical trial » IND/CTA submission HexaBody-DR5/DR5 » IND/CTA submission DuoBody-CD3xCD20 » Progress pre-clinical pipeline |
| Broaden partnership portfolio with next generation technologies | | <ul style="list-style-type: none"> » Enter new technology collaborations » Progress partnered programs |
| Disciplined financial management | | <ul style="list-style-type: none"> » Execute controlled company growth with selective investments in product pipeline |

Creating Value for Patients and Shareholders

Building on 3 central pillars: Focus, Innovation & Execution

- 2 marketed products
- 2 proprietary early stage clin. programs
- 2 proprietary technologies
- Robust pre-clinical pipeline
- Unique Antibody & R&D expertise
- Strategic collaborations
- Building commercial expertise
- Solid financials
- Proven track record



2016 Financial Results

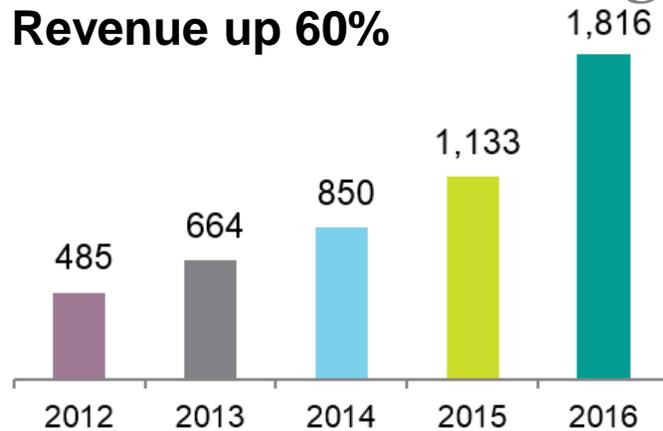
David A. Eatwell

EVP & Chief Financial Officer

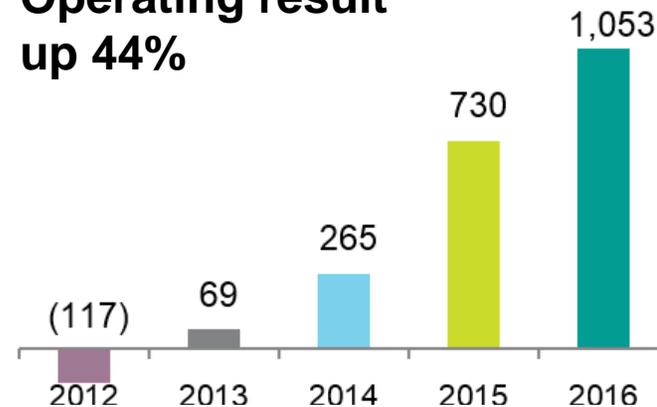


2016: A Record Breaking Year

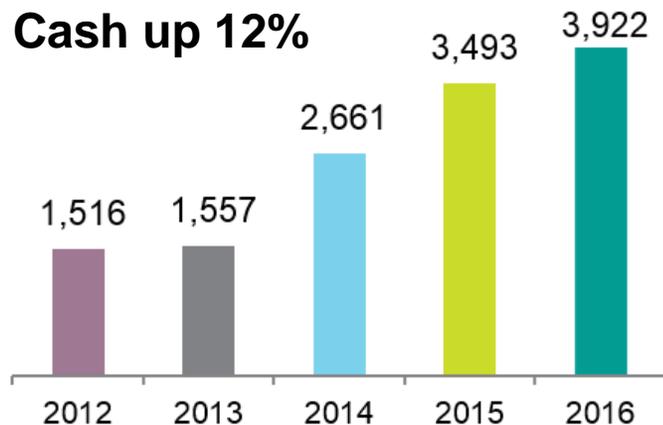
Revenue up 60%



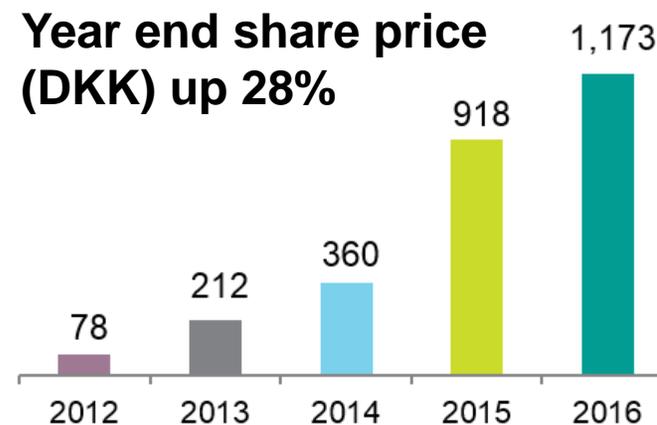
Operating result up 44%



Cash up 12%



Year end share price (DKK) up 28%



All amounts in DKK millions unless otherwise noted

Year Ended December 31 – Income Statement

Income Statement

| | 2016 | 2015 | Change |
|---------------------------|--------------|--------------|-------------------|
| Royalties | 521 | 92 | 429 |
| Milestones | 1,187 | 706 | 481 |
| Other Revenue | 108 | 335 | (227) |
| Total Revenue | 1,816 | 1,133 | 683 ↑60% |
| R&D Costs | (661) | (488) | (173) |
| G&A Expenses | (102) | (91) | (11) |
| Operating Expenses | (763) | (579) | (184) ↑32% |
| Other Income | - | 176 | (176) |
| Operating Result | 1,053 | 730 | 323 ↑44% |
| Net Financial Items | 77 | 28 | 49 |
| Tax | 57 | 6 | 51 |
| Net Result | 1,187 | 764 | 423 |

Royalty / Expense Ratio

| | |
|------|-----------------|
| 2015 | 92 / 579 = 16% |
| 2016 | 521 / 763 = 68% |

Cash Position*

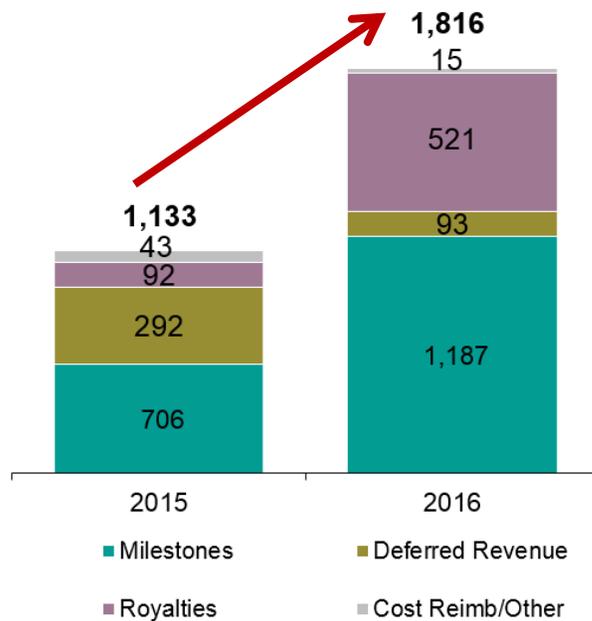
| | |
|------------------|--------------|
| End 2015 | 3,493 |
| Warrant exercise | 209 |
| Treasury shares | (118) |
| Other increase | 338 |
| | <u>429</u> |
| End 2016 | <u>3,922</u> |

All amounts in DKK millions unless otherwise noted

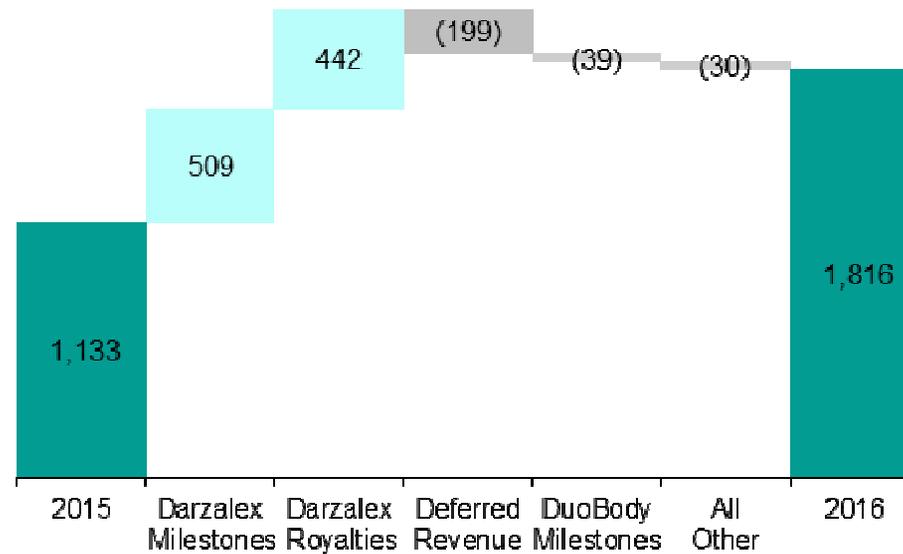
*Cash, cash equivalents, bank overdraft, and marketable securities

Revenue Sources & Key Growth Drivers

Revenue up 60%



Growth driven by DARZALEX



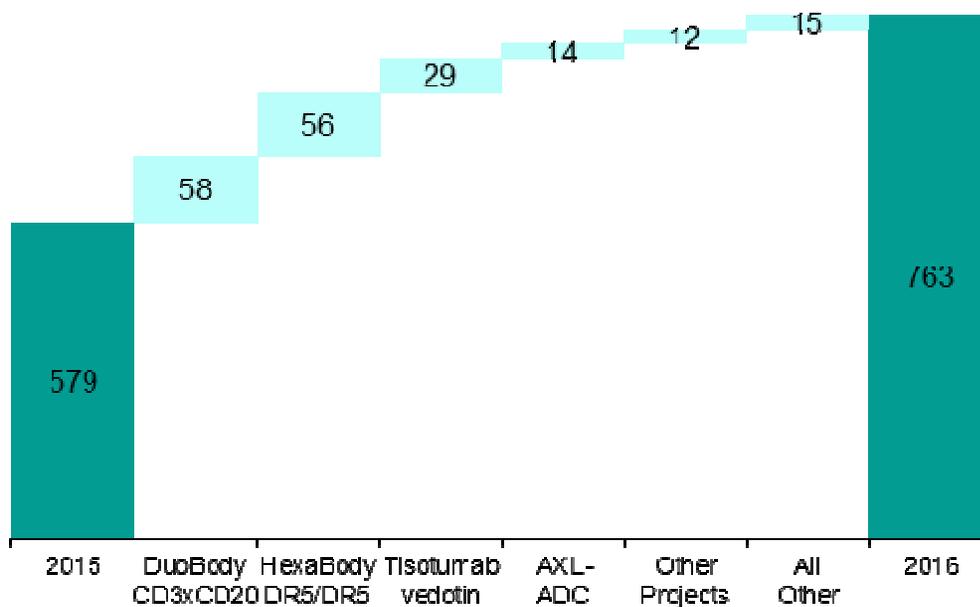
DARZALEX 2016

Janssen net sales USD 572M
Royalty to Genmab DKK 458M

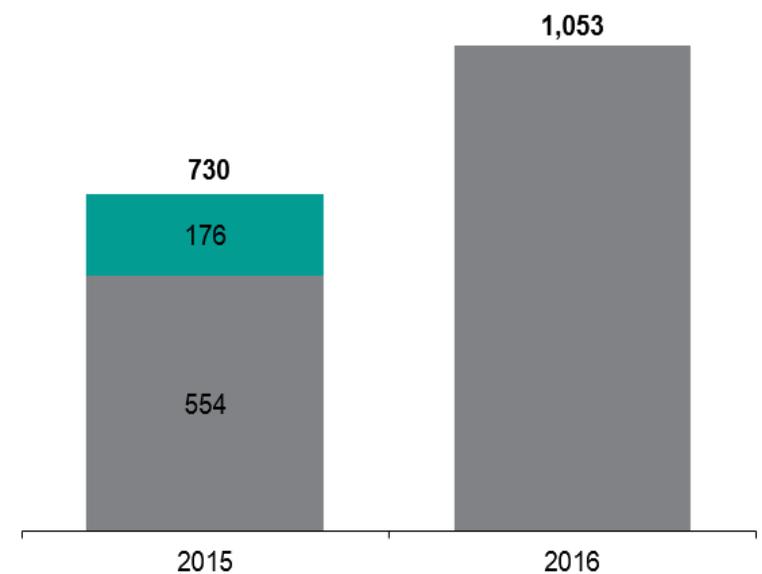
All amounts in DKK millions unless otherwise noted

Operating Result: Investing in our Pipeline

**Operating Expenses increased
32% driven by pipeline
investments**



**Revenue growth outpaces
expense growth increasing
Operating Income**



All amounts in DKK millions unless otherwise noted

Overview - 2017 Guidance

| DKK Millions | 2017 Guidance | 2016 Actual |
|-------------------------------|-------------------|-------------|
| Revenue | 1,950 – 2,150 | 1,816 |
| Operating expenses | (1,000) – (1,100) | (763) |
| Operating income | 900 – 1,100 | 1,053 |
| Cash position at end of year* | >4,500 | 3,922 |

*Cash, cash equivalents, bank overdraft, and marketable securities

DARZALEX sales

- Genmab's estimate of DARZALEX net sales USD 1.1 to 1.3 billion
- Sales ~ double 2016 sales of USD 572 million

Revenue mid-point DKK 2,050M

- DARZALEX royalties DKK 1,000M
- DARZALEX milestones DKK 800M
- Quality of revenue improving
- Royalty income similar to total operating expenses

Overview - 2017 Guidance

| DKK Millions | 2017 Guidance | 2016 Actual |
|-------------------------------|-------------------|-------------|
| Revenue | 1,950 – 2,150 | 1,816 |
| Operating expenses | (1,000) – (1,100) | (763) |
| Operating income | 900 – 1,100 | 1,053 |
| Cash position at end of year* | >4,500 | 3,922 |

*Cash, cash equivalents, bank overdraft, and marketable securities

Expense mid-point DKK 1,050M

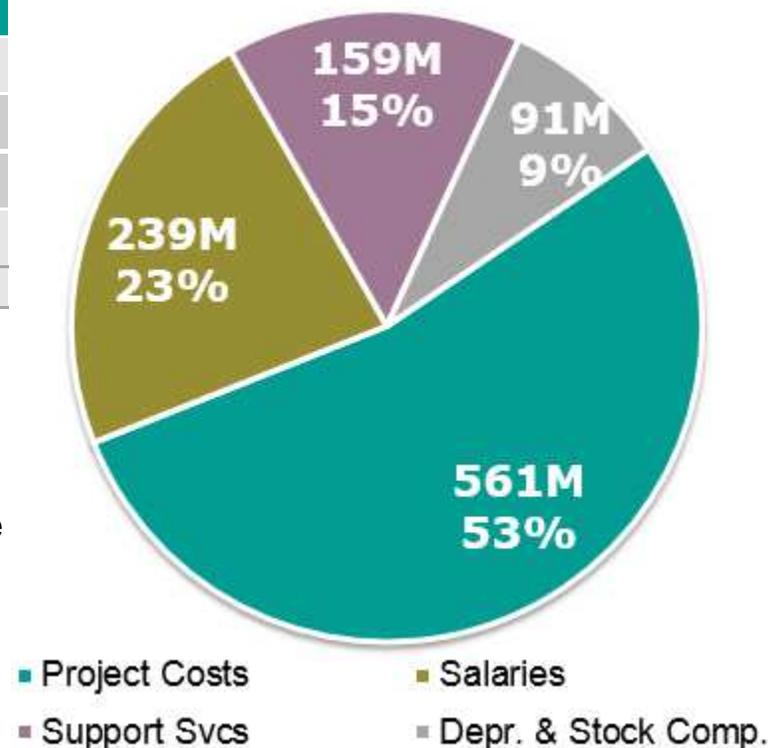
- Expense increase DKK 287M, +38%
- Continued investment in our clinical & pre-clinical pipeline
- 8 pipeline projects drive ~DKK 440M, 42% of total expense

Operating income mid-point DKK 1,000M

Cash position

- Greater than DKK 4,500M

2017 Expense Base DKK 1,050M





Approval of the Annual Report 2016 & Discharge of the Board of Directors and Executive Management

Jørgen Kjergaard Madsen
Chairman of the AGM





Election of Board of Directors

Mats Pettersson

Chairman of the Board



Mats Pettersson

- Re-election for 1 year
- Genmab board member since 2013
- Chairman
 - Chairman of Nominating and Corporate Governance Committee, Member of Audit Committee and Compensation Committee
- Other board memberships: Magle Chemoswed AB



Anders Gersel Pedersen, M.D., Ph.D.

- Re-election for 1 year
- Genmab board member since 2003
- Deputy Chairman
 - Chairman of Compensation Committee and Member of Nominating and Corporate Governance Committee
- Executive Vice President, Research & Development at H. Lundbeck A/S
- Other board memberships: Bavarian Nordic A/S and ALK-Abelló A/S



Pernille Erenbjerg

- Re-election for 1 year
- Genmab board member since 2015
- Board member
 - Chairman of Audit Committee and member of Nominating & Corporate Governance Committee
- Group CEO and President of TDC A/S
- Other board memberships: DFDS A/S and Nordea Bank AB



Paolo Paoletti, M.D.

- Re-election for 1 year
- Genmab board member since 2015
- Board member
 - Member of Compensation Committee
- Acting CEO GammaDelta Therapeutics
- Other board memberships: PsiOxus Therapeutics Limited, FORMA Therapeutics and NuCana BioMed Limited



Rolf Hoffmann

- Election for 1 year
- Genmab board observer since August 2016
- Adjunct Professor of Strategy and Entrepreneurship at the University of North Carolina Business School
- Other board memberships: STADA Arzneimittel AG and Trigemina, Inc.



Deirdre P. Connelly

- Election for 1 year
- Former President, North America Pharmaceuticals for GlaxoSmithKline
- Other board memberships: Macy's Inc. and Lincoln National Corporation



Composition Board of Directors

- Mats Pettersson
- Anders Gersel Pedersen
- Pernille Erenbjerg
- Paolo Paoletti
- Rolf Hoffmann
- Deirdre P. Connelly
- Peter Storm Kristensen, *Employee elected Board Member*
- Rick Hibbert, *Employee elected Board Member*
- Daniel Bruno, *Employee elected Board Member*



Election of Board of Directors

Jørgen Kjergaard Madsen
Chairman of the AGM





Election of Auditors





Proposals from the Board of Directors

Jørgen Kjergaard Madsen
Chairman of the AGM



Proposals from the Board of Directors

General Guidelines for Incentive-Based Remuneration

- Item 6 (a): Amendment of the general guidelines for incentive-based remuneration of the Board of Directors and the Executive Management
 - It is specified that a new member of Executive Management may receive a sign-on payment upon engagement subject to certain claw-back provisions
 - In exceptional cases, international, and in particular US based, members of Executive Management may on an annual basis be granted restricted stock units (RSUs) or a combination of RSUs and warrants corresponding to a value of up to 4 times annual base salary, not to exceed a value of DKK 25 million
 - If a combination of RSUs and warrants is granted, the proportional value of warrants may not exceed 50% of the total value
 - Maximum value of RSUs granted to a new member of the Board of Directors upon election may no longer exceed 4 times the fixed annual base fee
 - Maximum proportional value of RSUs granted to members of the Board of Directors annually is lowered
 - Vesting of RSUs and warrants granted to a member of the Executive Management may be subject to fulfilment of forward-looking performance criteria, whereas vesting of RSUs granted to a member of the Board of Directors may not be subject to fulfilment of forward-looking performance criteria
 - Warrants granted to Executive Management will vest three years after date of grant – same vesting schedule to be applied to the Company's warrant program

Proposals from the Board of Directors

Board Remuneration

- Item 6 (b): Approval of remuneration to the Board of Directors for 2017
 - Basic fee for members of the Board of Directors increased from DKK 375,000 to DKK 400,000; deputy chairman receives double and chairman receives triple
 - Supplemental fee for membership on Board committees increased from up to DKK 75,000 per membership to up to DKK 100,000 per membership
 - Committee Chairman receives up to DKK 150,000
 - Fee per committee meeting increased from DKK 9,000 to DKK 10,000
 - Board plans to establish Scientific Committee which will have remuneration within range of proposed fees
 - Board members will receive RSUs within scope described and adopted in the general guidelines for incentive-based remuneration

Proposals from the Board of Directors

Articles of Association

- Item 6 (c): Amendment of Article 5 of the Company's Articles of Association on authorization to issue warrants
 - Authorization to issue additional 500,000 warrants
 - Board of Directors no longer entitled to issue warrants to members of the Board of Directors and consultants
 - Board of Directors is entitled to issue warrants to, among others, employees in the Company's directly and indirectly owned subsidiaries

Proposals from the Board of Directors Articles of Association

- Item 6 (d): Insertion of a new Article 17 in the Company's Articles of Association on language of company announcements
 - Board of Directors may decide whether company announcements shall be prepared in English only



Authorization of the Chairman of the AGM





Any Other Business and Q&A



Closing

Jørgen Kjergaard Madsen
Chairman of the AGM

