

BerGenBio ASA (OSE: BGBIO) Results Fourth Quarter & FY 2018

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Introduction & recent highlights



BGBIO – Investment Highlights



AXL inhibitors – potential cornerstone of cancer therapy

Leaders in developing selective AXL inhibitors

Bemcentinib (Ph2), AXL-antibody BGB149 (Ph1), AXL ADC ADCT-601 (Ph1)

AXL is a novel oncology target to overcome immune evasion, therapy resistance & spread

Pipeline opportunities in multiple cancers and fibrosis



Ph2 data in AML & NSCLC with selective AXL inhibitor bemcentinib

Monotherapy and combinations with immune-, targeted and chemotherapies

Biomarker correlation across programme, parallel CDx development

AXL positive patients:
43% ORR in R/R AML/MDS (monotherapy)
40% ORR in 2L NSCLC (KEYTRUDA combo)

Late stage clinical trials to start H2'19



Resourced to deliver significant milestones

Clinical trial collaborations with Merck and leading academic centres

AXL antibody out licensed to ADC Therapeutics SA

38 staff at two locations:
HQ & R&D in Bergen, Norway;
Clinical Development in Oxford, UK

Cash NOK360m

Agenda

1. **Introduction and recent highlights**
2. **Bemcentinib: First-in-class highly selective AXL inhibitor in Phase II**
3. **Clinical Development Opportunities**
4. **BGB149 – Anti AXL monoclonal antibody in Phase I**
5. **Finance**
6. **Outlook**

Q4 2018 Highlights

Bemcentinib monotherapy & combo in AML/MDS (BGBC003):
PoC monotherapy data reported at ASH, combination studies ongoing

Bemcentinib + KEYTRUDA® in NSCLC (BGBC008):
Selected as late-breaking abstract for SITC – PoC phase II data (stage 1)

Bemcentinib biomarker programme:
Selected for poster discussion at ESMO

Strengthened clinical development team

Post-period updates:
BGB149 (AXL antibody) and ADCT-601 (partnered AXL ADC): start phase I trial



Increasing profile and recognition of bemcentinib at international clinical congresses in 2018

January	February	March	April	May	June	July	August	September	October	November	December
ASCO-SITC Lung cancer, TNBC and AML trial update ✓ KEYTRUDA combo well tolerated ✓ Bemcentinib induces diversification of T-cell receptor repertoire (AML)	AACR Preclinical Update Bemcentinib increases efficacy of checkpoint inhibitors	ASCO NSCLC, AML, Melanoma and biomarker update Bemcentinib enhances responses to ✓ IO, ✓ chemo, ✓ targeted therapies ✓ and has monotherapy efficacy	EHA AML trial update Responses to bemcentinib monotherapy correlated with AXL biomarker	WCLC Lung cancer trials update ✓ 40% ORR in AXL+ pts in combo w/ KEYTRUDA ✓ Improved PFS in combo with erlotinib and chemo	ESMO Biomarker update ✓ AXL biomarkers identified ✓ Melanoma clinical update ✓ AXL's role in low-risk MDS (pre-clinical)	SITC NSCLC data late breaking <i>Late-breaking abstract:</i> 5.9m PFS in AXL+ previously treated NSCLC in combo w/ KEYTRUDA (c80% improvement in AXL+ pts vs AXL-)	ASH AML trial data update 43% CR/Cri/CRp rate in AXL biomarker positive pts				

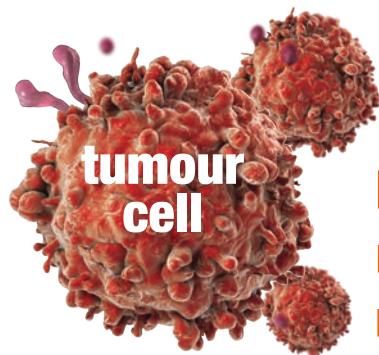


Key data presented in Q4 supports future strategy for late-stage clinical development of bemcentinib in AML/MDS and NSCLC

AXL drives aggressive cancer



AXL receptor tyrosine kinase drives aggressive disease including therapy resistant, immune-evasive tumours



**Drives tumour cell plasticity:
non-genetic resistance
mechanism**

AXL drives features of aggressive cancer:

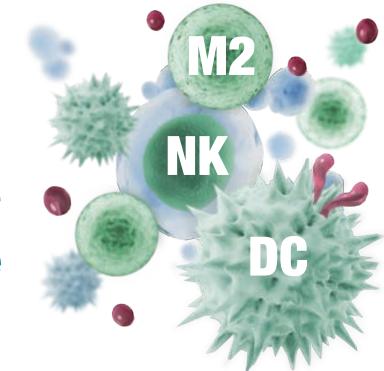
- Acquired therapy resistance
- Immune escape
- Metastasis

very low expression under healthy
physiological conditions (ko mouse
phenotypically normal)

overexpressed in response to hypoxia,
immune reaction, cellular stress /
therapy

overexpression correlates with **worse
prognosis in most cancers**

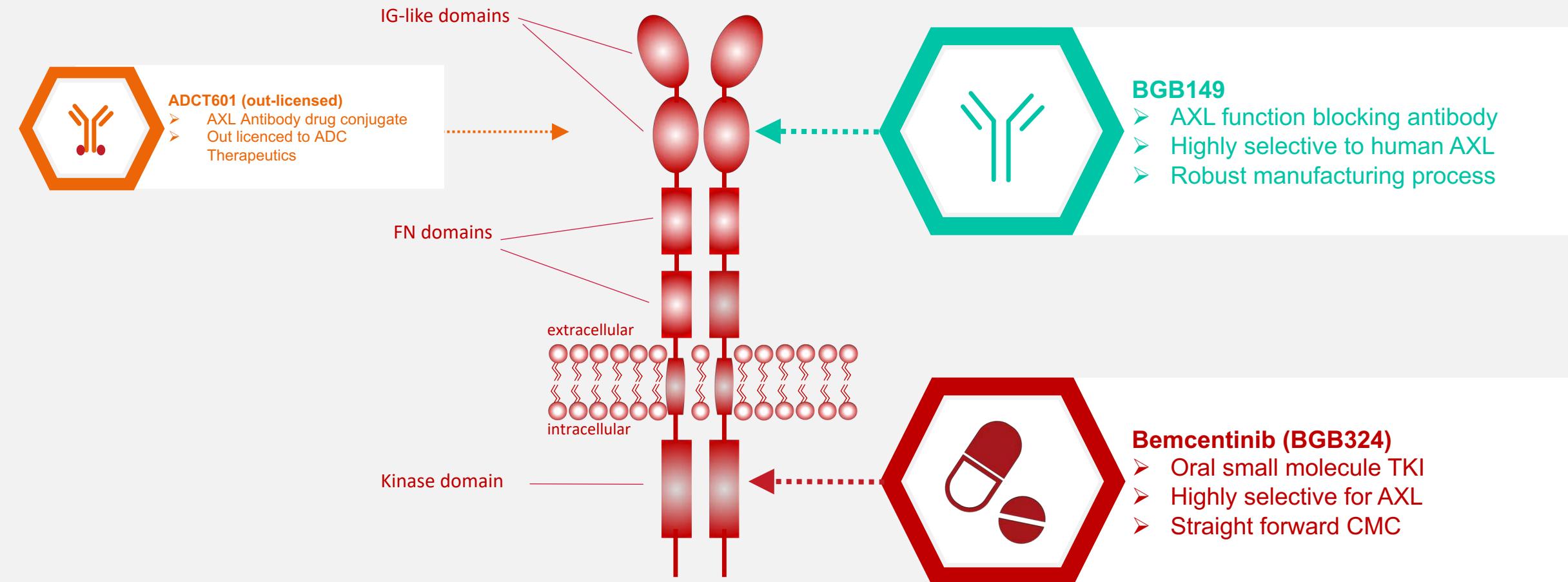
**Key suppressor of innate
immune response**



AXL is an innate immune checkpoint:

- M1 to M2 macrophage polarisation
- Decreased antigen presentation by DCs
- Immunosuppressive cytokine profile

Three AXL-targeting drug candidates in clinical development



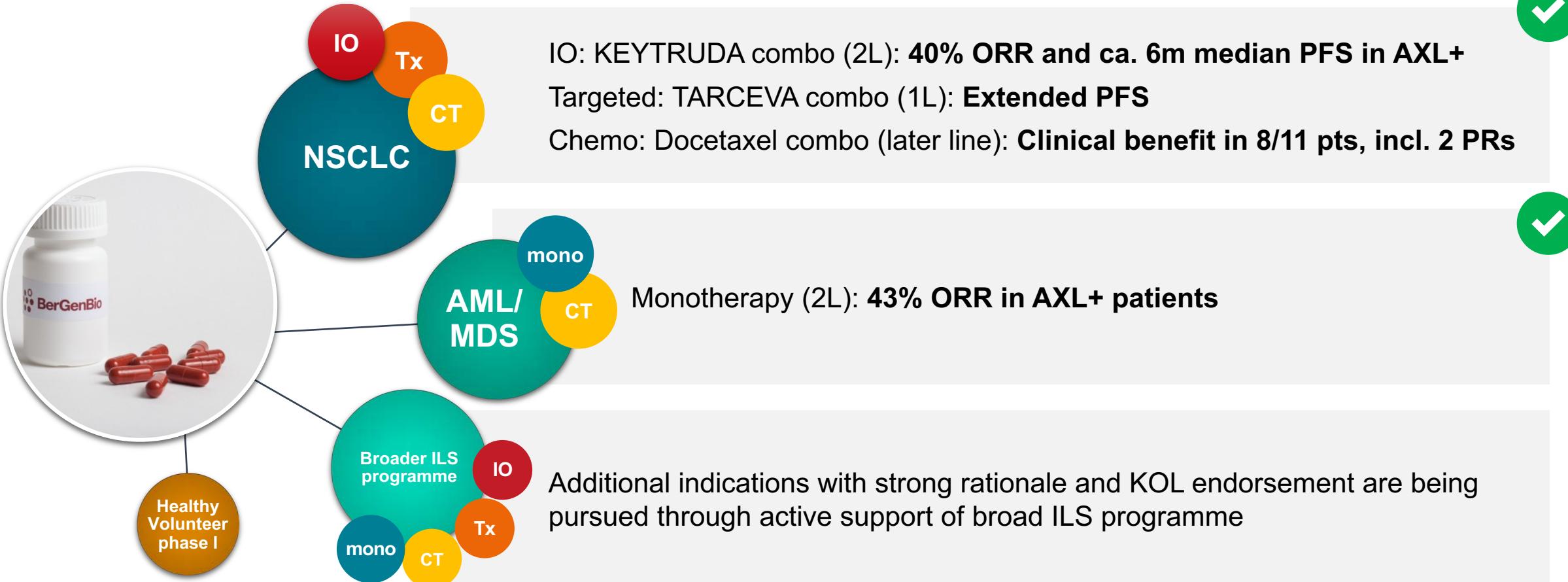
Clinical development programmes of AXL inhibitors

> 350 patients at 50 sites across Europe and USA

	Preclinical	Phase I	Phase II	Phase III	Status
Selective AXL kinase inhibitors					
Bemcentinib: selective oral small molecule AXL inhibitor					
NSCLC + KEYTRUDA (2L, IO naïve)	▶ previously treated advanced adenocarcinoma of the lung			 MERCK (1)	Stage 1 complete, 40% ORR in AXL+; stage 2 ongoing
 NSCLC + TARCEVA (1L & 2L)	▶ advanced NSCLC with activating mutation of EGFR				Fully recruited, 1 st efficacy endpoint met
NSCLC + docetaxel (later line) ⁽²⁾	▶ previously treated advanced NSCLC				ILS, ongoing – latest update WCLC 2018
 AML single agent + low dose chemo (1L & 2L)	▶ AML or previously treated MDS unfit for intensive chemo				Mono: 43% ORR in AXL+ R/R AML/MDS; decitabine combo completed recruitment
ILS programme in additional oncology indications ⁽²⁾	▶ Melanoma, mesothelioma, pancreatic, glioblastoma, MDS				Portfolio of ILS, ongoing & in set-up
Fibrosis – preclinical	▶ IPF, NASH				Pre-clinical work published throughout 2018
BGB149: anti-AXL mAb					
Healthy volunteers – phase 1a dose escalation	▶ Healthy volunteer SAD				
BGB601: AXL ADC outlicensed					
Metastatic cancers	▶ First-in-man solid tumours	▶ Out-licensed to 			
Companion Diagnostics Pipeline					
Tissue AXL Soluble AXL Additional soluble markers	Biomarker Discovery	Biomarker Verification	Validation		Correlation with efficacy reported
	▶ Correlation with benefit from monotherapy, combo with targeted and immunotherapy				



Summary of Phase II PoC data with bemcentinib (Focus on NSCLC & leukaemia)



Bemcentinib PoC data summary: Monotherapy and combinations





Bemcentinib: once-a-day AXL inhibitor

Highly selective, orally bioavailable small molecule, administered once a day, in phase II clinical trials

Blocks AXL signalling, reverses aggressive tumour traits & counteracts immune escape

Clinical PoC in AML and NSCLC as a monotherapy and in combination

Correlation of clinical efficacy with AXL biomarkers observed

Excellent clinical safety profile

Randomised, late stage clinical trials planned to start in H2 2019



Ref. BGBC003 / NCT02488408

Acute Myeloid Leukaemia (AML) & Myelodysplastic Syndrome (MDS)

Bemcentinib is being evaluated as a monotherapy and in combination with standard of care to treat AML and high-risk MDS

- ✓ ***43% ORR in AXL +ve R/R AML and MDS patients***
- ✓ ***chemo combos in 1L ongoing***





MDS & AML: Disease characteristics

New strategies to treat **older & relapsed/ refractory patients** is an urgent, unmet need

Myelodysplastic syndromes (MDS) (pre-leukaemia or smoldering leukaemia)

Occurs when the blood-forming cells in the bone marrow (the soft inner part of certain bones, where new blood cells are made), become abnormal. This leads to low numbers of one or more types of blood cells.

~ 40,000 new cases
per year (U.S. only)³

Most diagnoses made in
70s or 80s¹

MDS 40% risk of
developing into
AML.⁴

Acute Myeloid Leukaemia (AML)

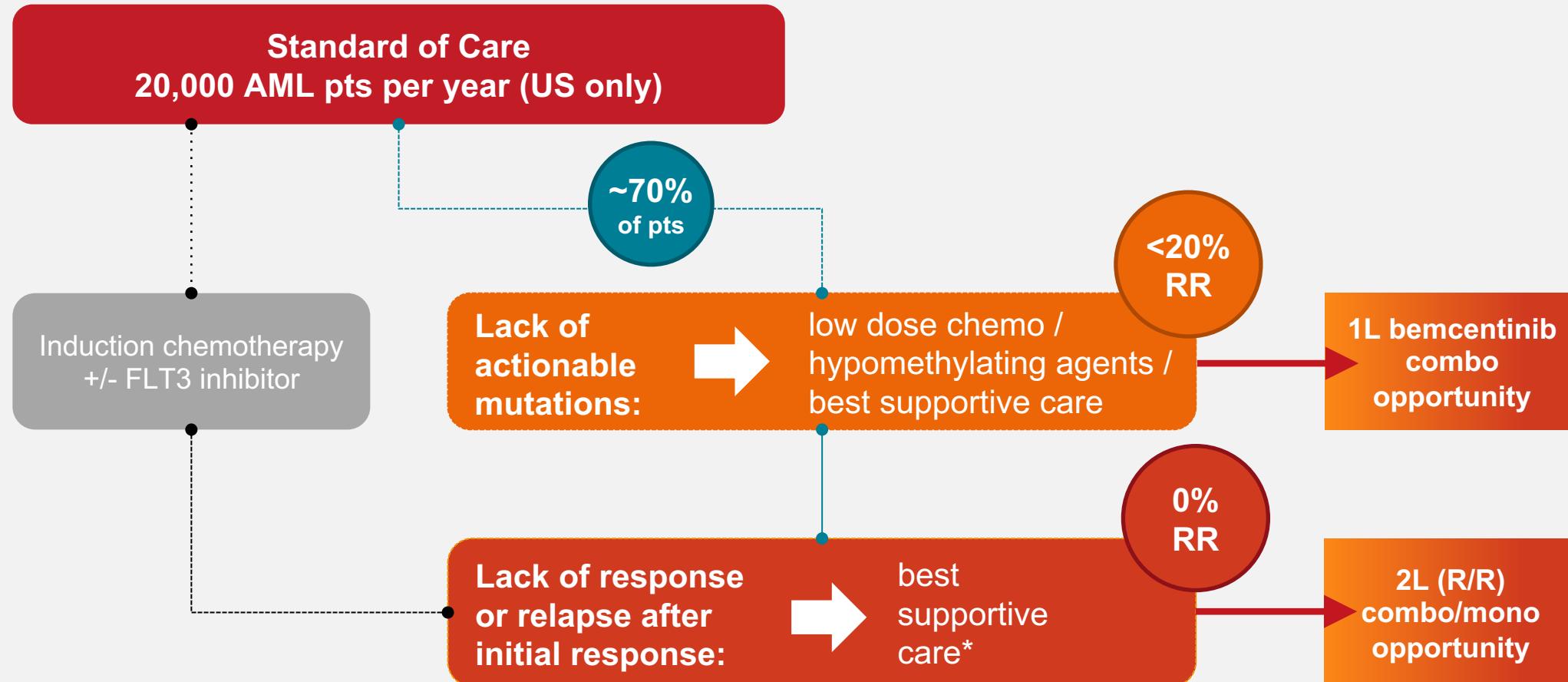
Cancer of the myeloid line of blood cells, characterized by rapid growth of abnormal cells that build up in the bone marrow and blood and interfere with normal blood cells

~ 20,000 new cases
diagnosed and >10,000 deaths (2018, U.S.)²

Most common type of
acute leukaemia in adults¹

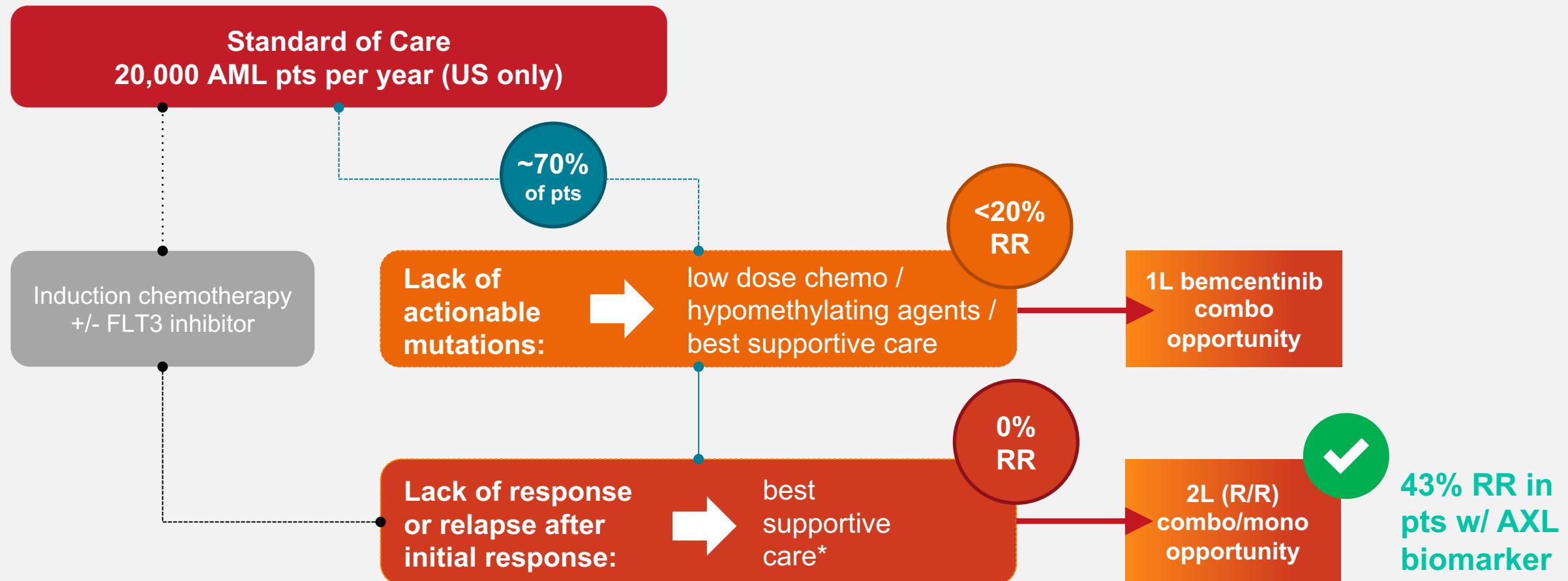


AML & MDS – difficult to treat malignancies, predominantly elderly frail patient population.



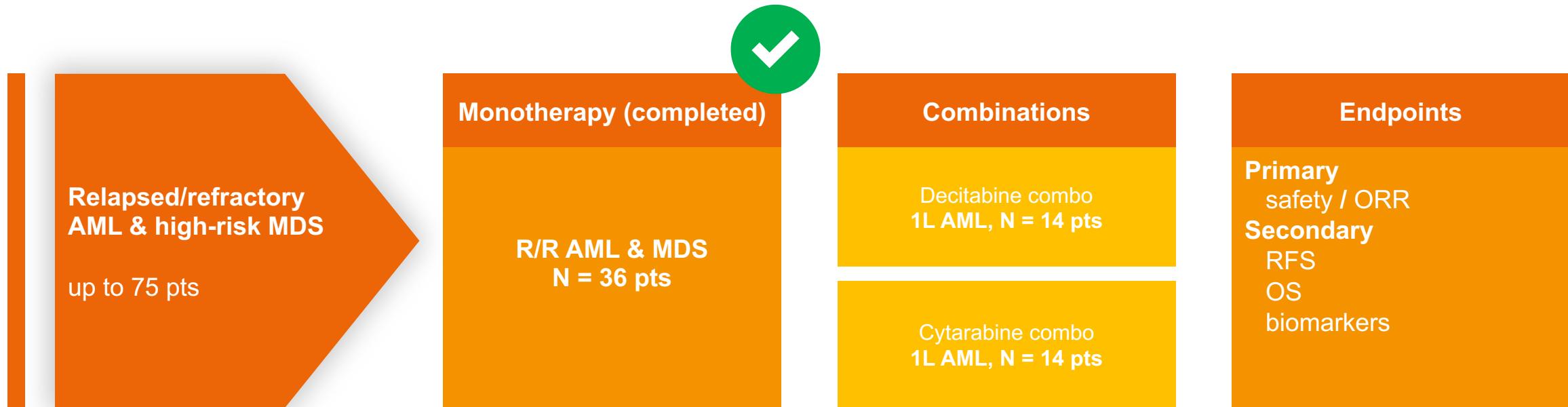


AML & MDS – difficult to treat malignancies, predominantly elderly frail patient population.





Phase II trial in AML/high risk MDS: monotherapy and combination with LDCT*





Summary results slide and next steps

Status Jan '19

Summary results

- Monotherapy cohort complete
- 43% ORR in AXL positive patients
- Excellent safety
- Evidence of immune activation

Next steps

- Chemo combinations ongoing
 - Top line data Q1'19
- Comprehensive analysis anticipated at ASCO/EHA '19

Monotherapy shows promising efficacy in comparison to approved & emerging regimens



Approved,
limited pt
populations
only

Emerging
therapies
in R/R AML
presented
at ASH

Regimen	Overall response	Patient population	Mechanism of action	Administration	Source
Bemcentinib (Phase II)	42,8 %	low soluble AXL	selective AXL inhibitor	oral, once-daily	Loges et al, ASH 2018
Enasidenib (APPROVED)	40,3 %				
Ivosidenib (APPROVED)	41,6 %				
Gilteritinib (APPROVED)	21,0 %				
Gemtuzumab ozogamicin (APPROVED)	26,0 %				
Quizartinib (Phase III)	48,0 %	FLT3-ITD-positive	FLT3-ITD inhibitor	oral, once-daily	Cortes J, et al; ASH 2018, Blood
Venetoclax (Phase II)	19,0 %				
IMGN632 (Phase I)	33,0 %				
IMGN779 (Phase I)	6,9 %	any r/r AML	CD33-positive; ≥20% of blasts expressing CD33 by flow cytometry	IV infusion, Q2W or QW; premedication with steroids	Cortes J, et al; ASH 2018, Blood
AMG 330 (Phase I)	11,4 %				
XmAb14045 / SQZ622 (Phase I)	23,1 %				
Flotetuzumab (Phase I/II)	22,0 %	any r/r AML	CD123-/CD3-targeting bispecific antibody	IV continuous infusion, 7-day/week	Uy, G, et al; ASH 2018, Blood
CYAD-01 (Phase I)	42,0 %				

Ref. BGBC008 / NCT03184571

Bemcentinib in combination with KEYTRUDA in 2L NSCLC

The BGBC008 trial is designed to test whether AXL inhibition can enhance responses to immunotherapy (*KEYTRUDA monotherapy showed 8% response rate* in previously treated PD-L1 negative NSCLC*), summary of responses:

- ✓ **27% ORR in PD-L1 –ve patients**
- ✓ **40% ORR in AXL+ve patients**

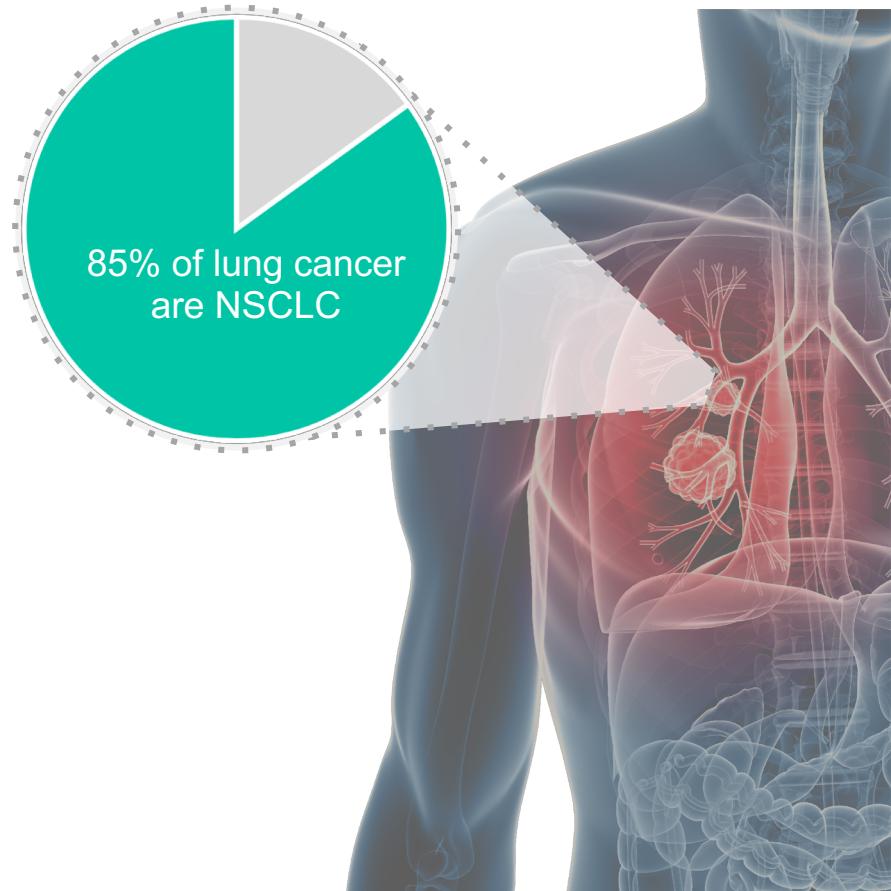
Clinical collaboration with Merck & Co. (MSD)



* Garon, N Engl J Med 2015: Includes any PD-L1 expression



NSCLC causes more cancer related deaths than breast, colon, pancreas and prostate combined



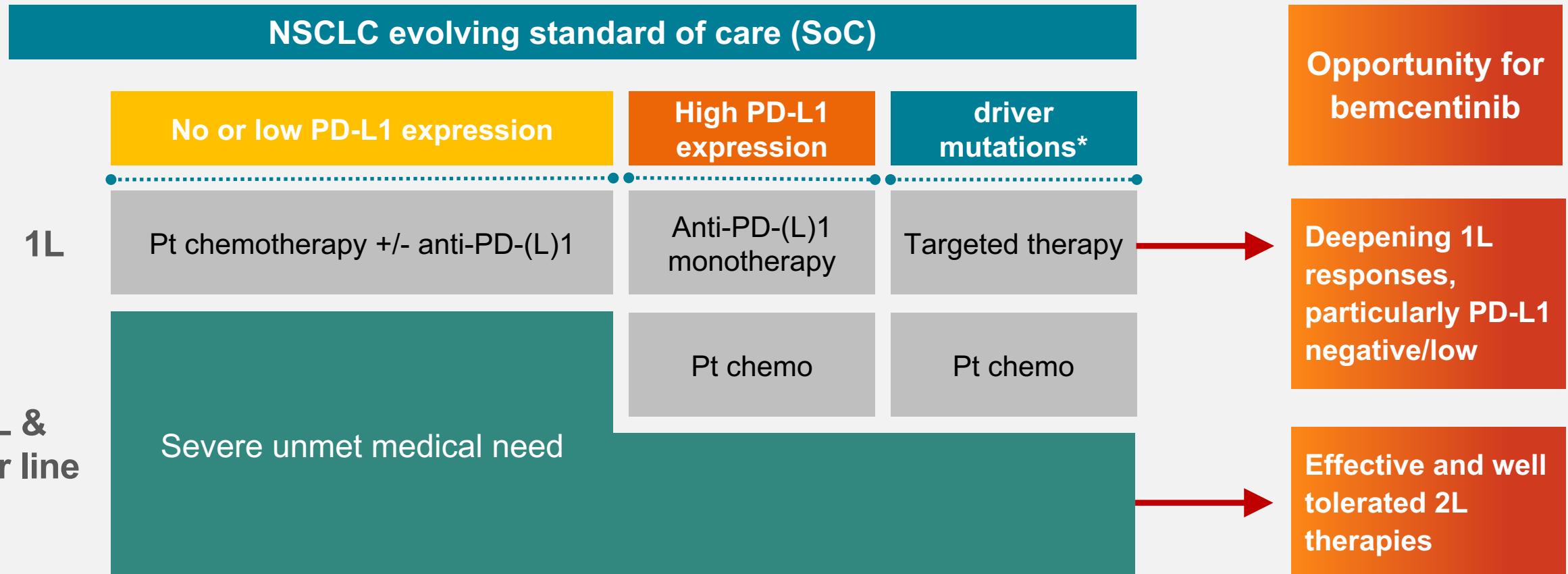
The largest cancer killer, most patients depend on drug therapy

- 2.09 million new cases of lung cancer diagnosed/yr worldwide, making up 11.6% of all cancer cases¹
- 1.76 million lung cancer deaths/yr worldwide¹
- In the U.S, 5-year survival rate is approximately 18.6%, and **4.7%** in patients with distant metastases²

Non-small cell lung cancer is the most common type of lung cancer, making up 80-85% of lung cancers



Rapidly emerging SoC creates opportunities for novel effective, chemo free regimens





Phase II 2L NSCLC study of bemcentinib with KEYTRUDA



Key objectives

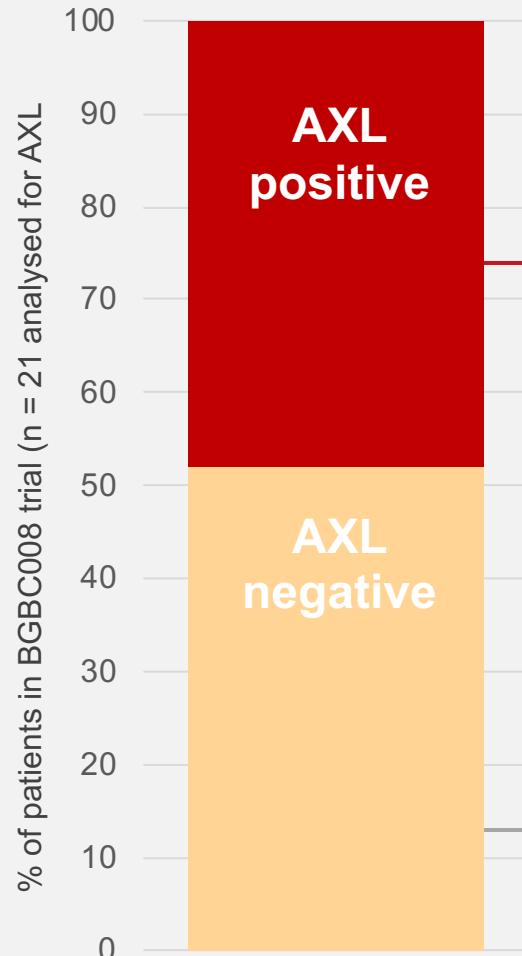
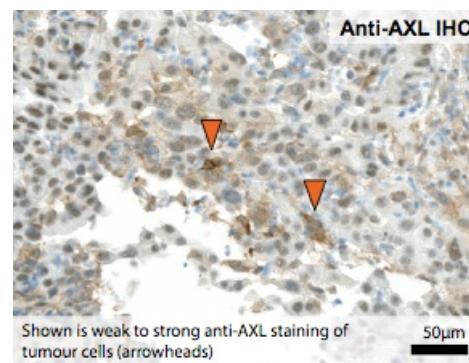
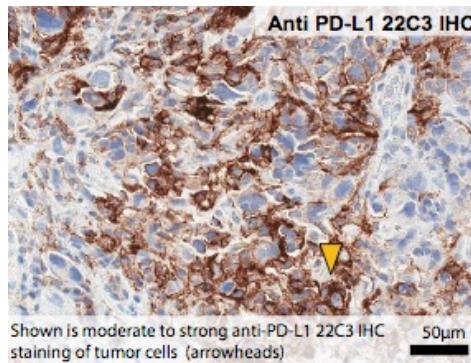
- Evaluate safety of the combination and response to treatment with the combination
- Characterise patients by PD-L1 and AXL status
- Evaluate efficacy of patients by biomarker status, and assess predictive qualities of biomarkers
- Assess survival measures in patients by biomarker status



Response per biomarker expression

Analysis of biomarker expression in the BGBC008 trial revealed:

- ✓ Appr. **half of patients were AXL positive** (10 out of 21 analysed for AXL)
- ✓ The **vast majority of patients did not express high levels of PD-L1**, the biomarker for KEYTRUDA monotherapy efficacy



Superior efficacy in AXL +ve pts:

Bemcentinib + KEYTRUDA
ORR: 40%
PFS: 5.9 months

Keytruda monotherapy*
ORR: 12%
PFS: 2.1 months

Bemcentinib + KEYTRUDA
ORR: 9%
PFS: 3.4 months



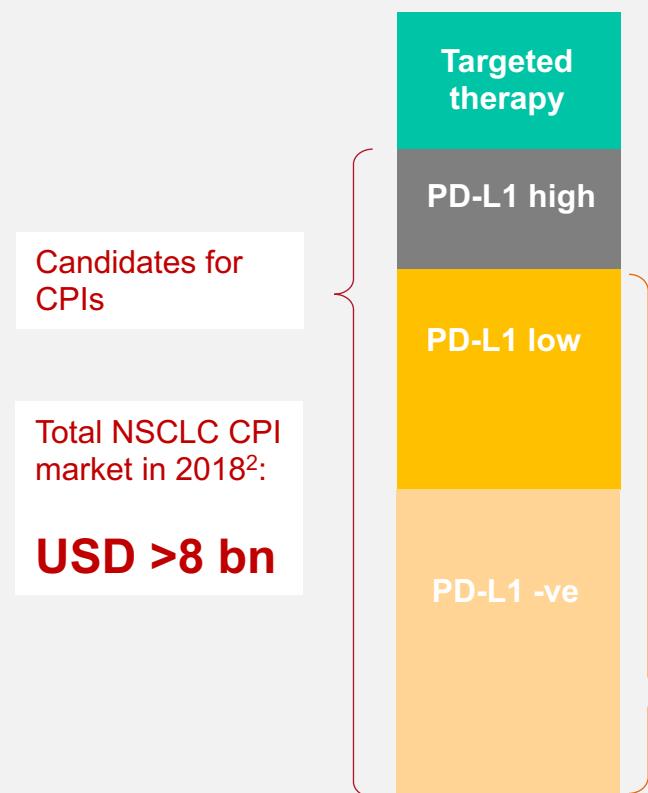
Promising efficacy in comparison to approved monotherapy and emerging combinations*

Regimen	Overall Response Rate					PFS	Patient details / Biomarker	Mechanism of action	Administration	Source
	0%	10%	20%	30%	40%					
Bemcentinib + pembrolizumab (Phase II)	n=10				40%	5.9 mo	AXL positive, any PD-L1 (TPS 0-49% in 70%)	selective AXL inhibitor	oral, once daily	Krebs, M, et al; SITC 2018
Pembrolizumab (APPROVED)	n=344	18%				3.9 mo	PD-L1 positive (TPS>1%)	PD-1 inhibitor	IV infusion, once every 3 weeks	FDA label, prescribing info
Atezolizumab (APPROVED)	n=425	14%				2.8 mo	any PD-L1 (55% PD-L1 positive)	PD-L1 inhibitor	IV infusion, once every 3 weeks	FDA label, prescribing info
Nivolumab (APPROVED)	n=135	20%				3.5 mo	any PD-L1 (53% PD-L1 positive), squamous	PD-1 inhibitor	IV infusion, once every 2 weeks	FDA label, prescribing info
Nivolumab (APPROVED)	n=292	19%				2.3 mo	any PD-L1 (54% PD-L1 positive), non-squamous	PD-1 inhibitor	IV infusion, once every 2 weeks	FDA label, prescribing info
Epacadostat + pembrolizumab (Phase I/II)	n=70		29%			4.0 mo	prior treatment w/ CT; IO-naive; responses regardless of PD-L1 (no details provided)	selective inhibitor of IDO1 enzyme	oral, twice daily	Villaruz, L, et al; WCLC 2018 abstract
HBI-8000 + nivolumab (Phase Ib/II)	n=8			38%		not yet available	includes CPI-naïve and – experienced patients	HDAC class I & IIb inhibitor	oral, twice weekly	Khushalani, N, et al; SITC 2018
TSR-042 (Phase I)	n=32		25%			not yet available	PD-L1 low (TPS 0-49%)	PD-1 inhibitor	IV infusion, once every 3 weeks	Perez, D, et al; SITC 2018
TSR-022 + TSR-042 (Phase I)	n=31	13%				not yet available	patients include IO-naive and - experienced; all responses in PD-L1 positive (TPS>1%)	anti-TIM-3 antibody + anti-PD-1, respectively	IV infusion, once every 3 weeks	Davar, D, et al; SITC 2018
Ramucirumab + pembrolizumab (Phase Ia/b)	n=11	18%				9.7 mo	PD-L1 negative (TPS<1%)	anti-VEGFR2	IV infusion, once every 3 weeks	Herbst, R, et al; ASCOPubs 2018, JCO



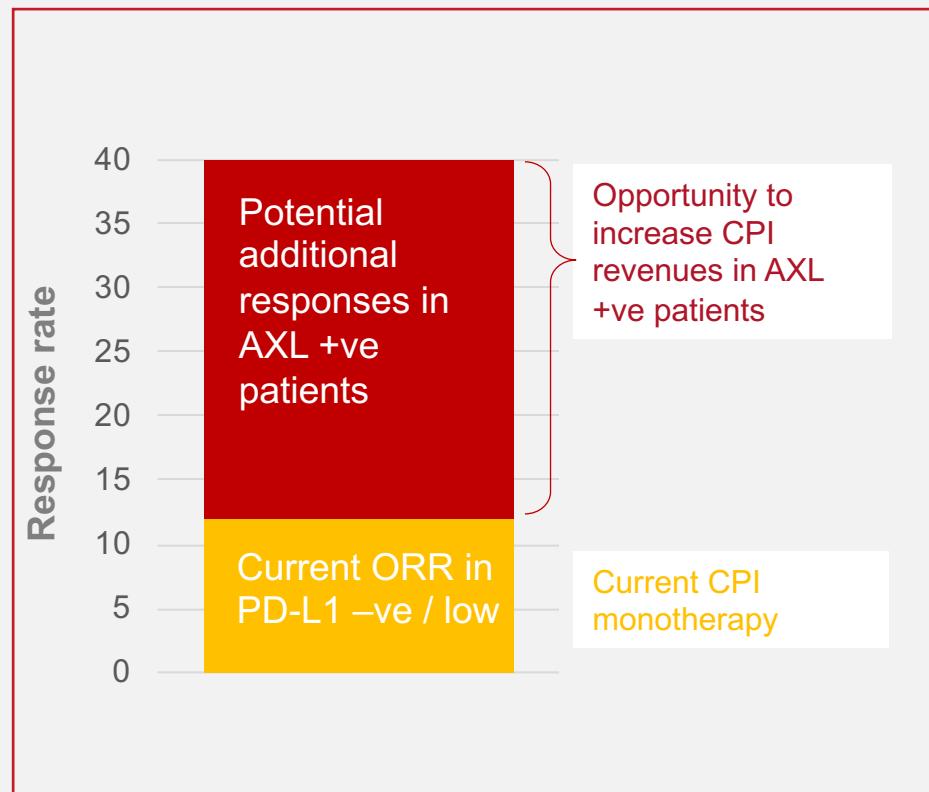
The majority of NSCLC patients are eligible for CPIs, but only few respond: novel combination agents will drive CPI differentiation & multi-billion market opportunity

Late stage NSCLC pts / yr (US only) **135,000**



50%

of BGB008 patients found positive for AXL, in these patients response was tripled compared to monotherapy





Summary results and next steps

Status Jan '19

Summary results

- 1st efficacy endpoint met
- 40% ORR and 6m PFS in AXL positive patients
- 27% ORR in PD-L1 -ve patients

Next steps

- Second stage ongoing
- **H1 '19**
 - Top line OS for stage 1
 - Preliminary ORR per biomarker stage 2
- **H2 '19**
 - Final efficacy & biomarkers stage 1 + 2
 - PFS

Clinical development opportunities for bemcentinib





Clinical Development opportunities for bemcentinib



Monotherapy opportunities

Selected, biomarker directed, indications



Chemotherapy combos

Improve responses in hard to treat settings



Immunotherapy combos

Target resistance, enlarge addressable pt population



Targeted therapy combos

Target resistance, enlarge addressable pt population



Earlier line opportunities

Radiotherapy and maintenance opportunities

Clinical Proof-of-concept

AML / MDS (complete)
Glioblastoma (ongoing, IIT)
EMT signature selected (potential)

Late stage clinical trials 2019



AML / MDS + LDCT
Pancreatic, (IIT in set-up)
NSCLC (ongoing, IIT)



NSCLC (PD-L1 all comers)
• IO naïve (ongoing, stage 1 complete)
Melanoma, (ongoing, IIT)
Mesothelioma (IIT in set-up)
Bladder ++, CAR-T combos (under consideration)



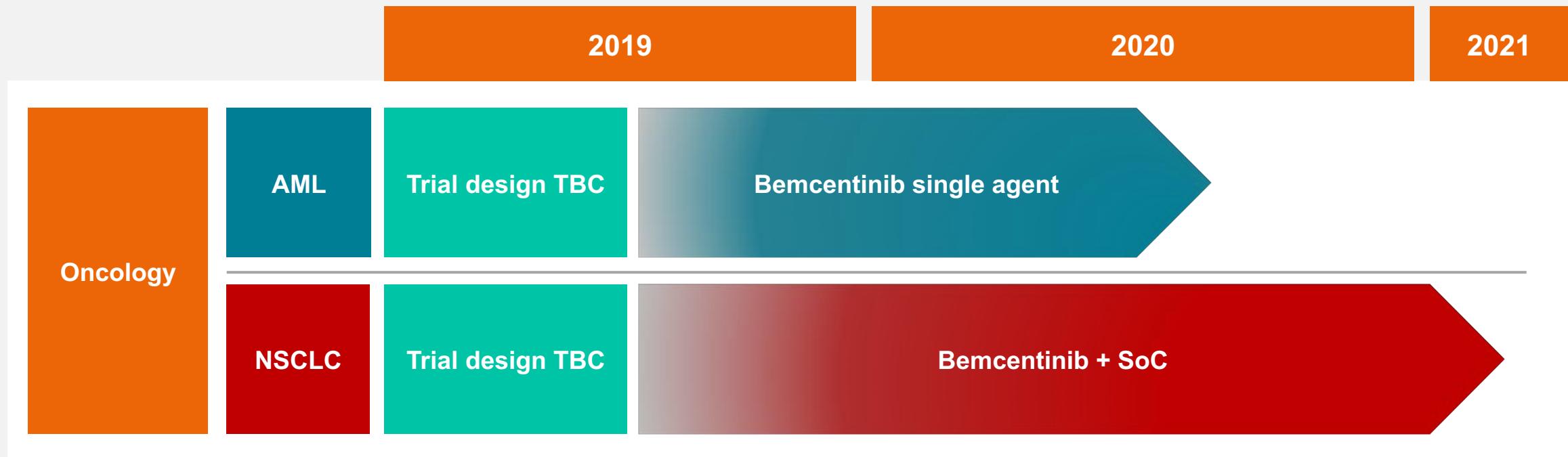
NSCLC + EGFRi (complete)
Melanoma, (ongoing, IIT)
PARPi combos ++ (under consideration)



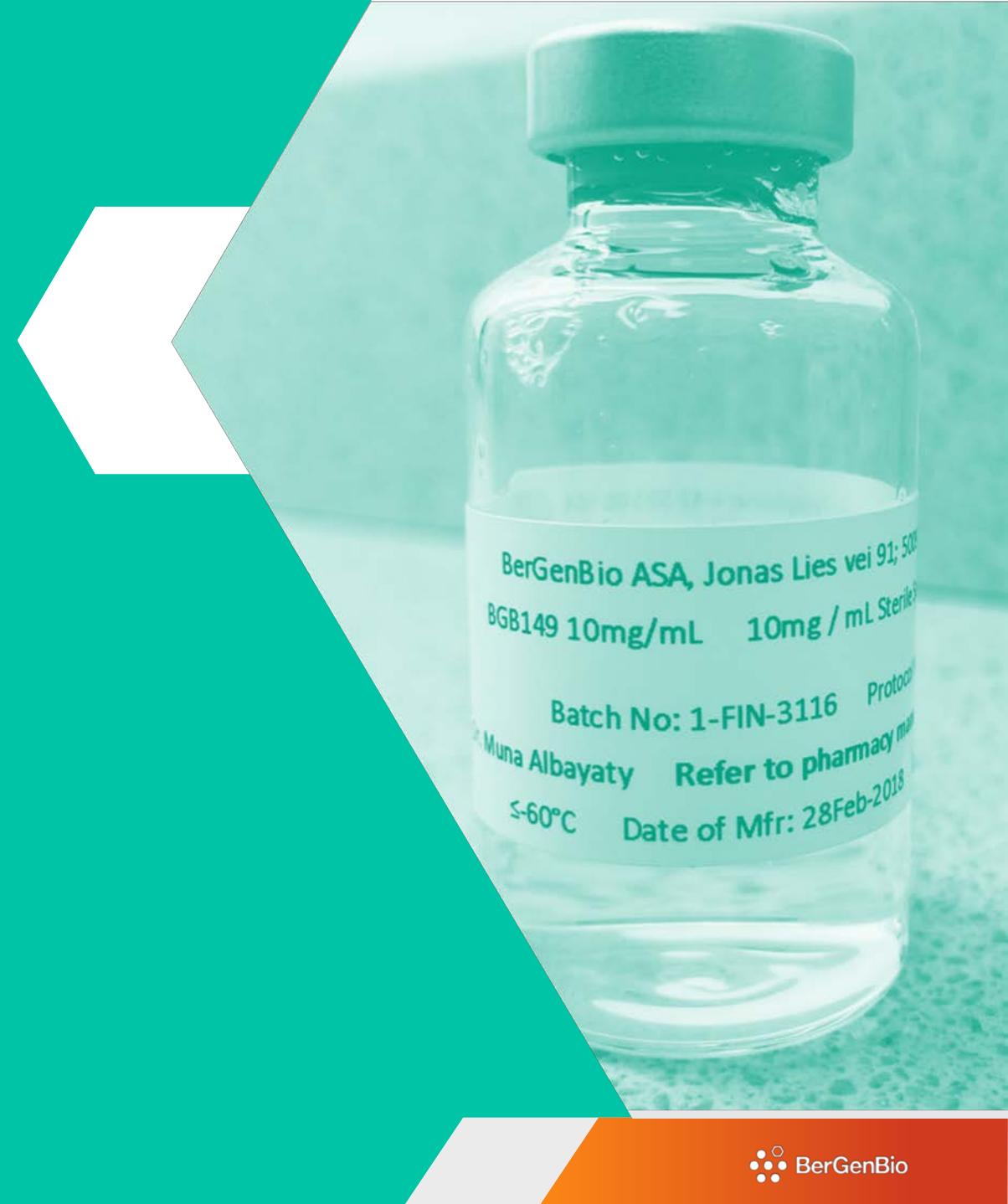
Multitude of maintenance opportunities
given very favourable safety profile



Data generated provides strong rationale for late stage clinical trials to start in 2019*



BGB149 – a monoclonal anti-AXL antibody





BGB149: Anti-AXL monoclonal antibody

Phase I clinical trial initiated January 2019

Functionally blocking humanised monoclonal antibody

Binds human AXL, blocks AXL signalling

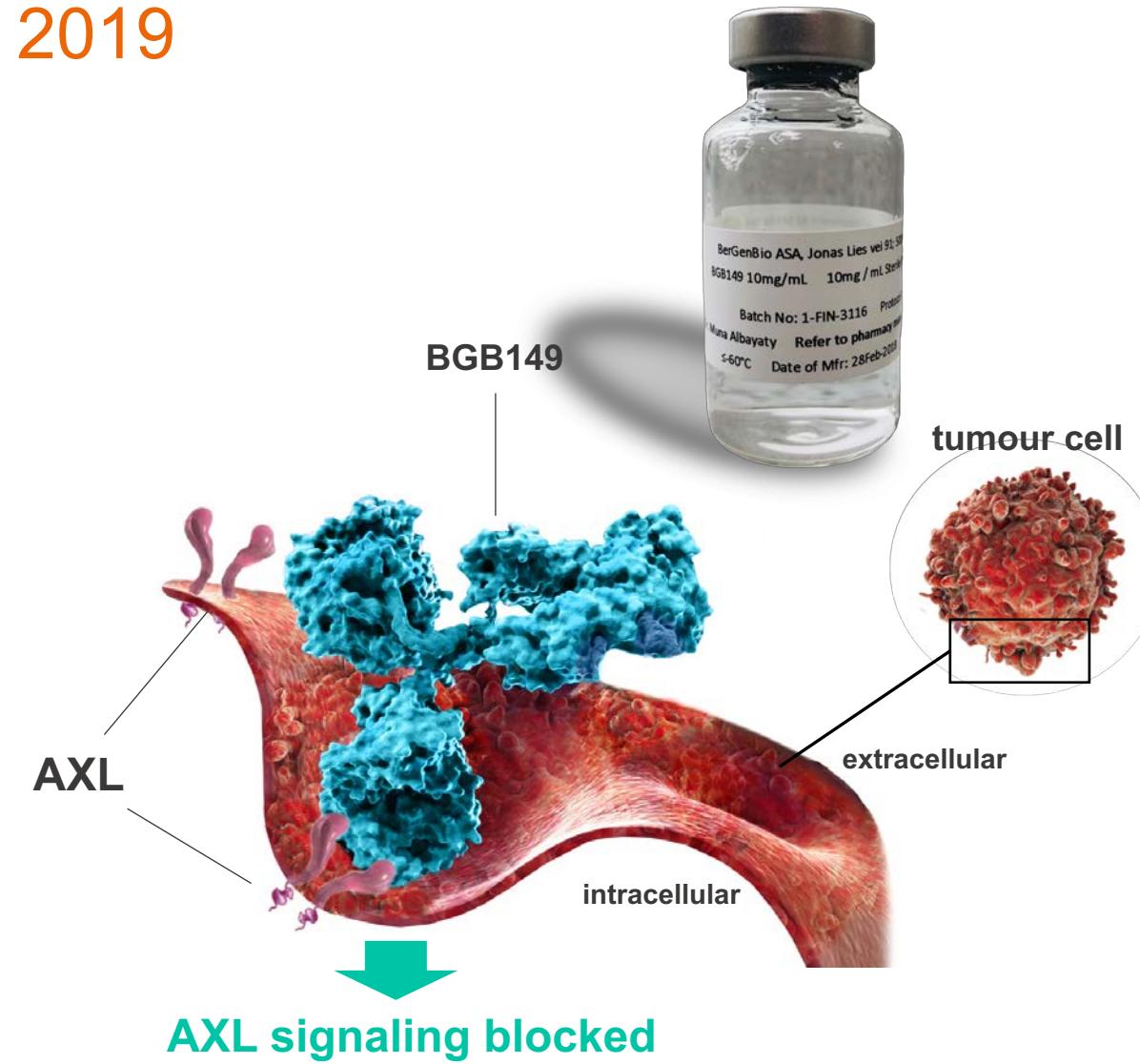
High affinity (KD: 500pM), Anti-tumour efficacy demonstrated *in vivo*

Robust manufacturing process established, 18 months stability

First-in-human healthy volunteer Phase I study initiated

- Up to 36 subjects
- Safety, PK/PD

First-in-patient trial expected in H2 2019



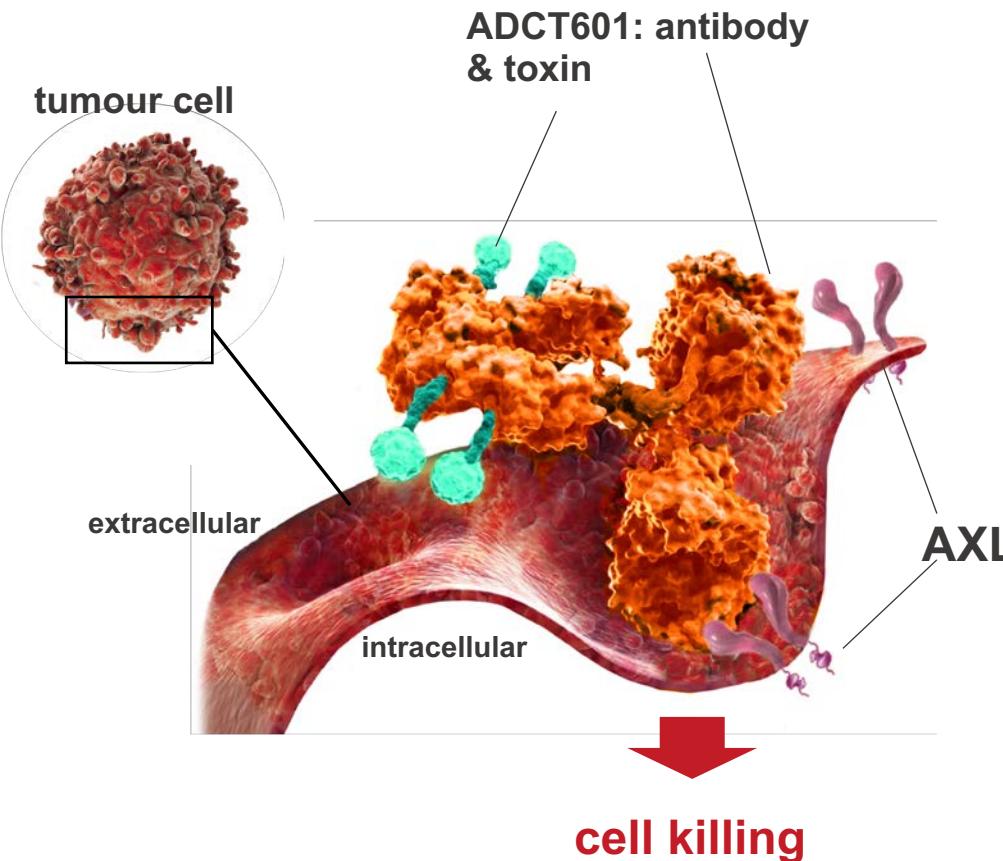
ADCT-601 – AXL ADC





BGB601/ADCT-601: Anti-AXL ADC

Phase 1 in solid tumours started January 2019



Antibody Drug Conjugate (ADC)

Targets human tumour AXL, induces cell death when internalised

Potent and specific anti-tumour activity demonstrated preclinically¹

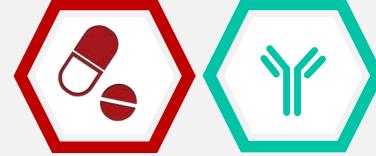
First-in-human Phase I study initiated in Jan 2019

- Solid tumours
- Up to 75 patients
- Safety, PK/PD, preliminary efficacy

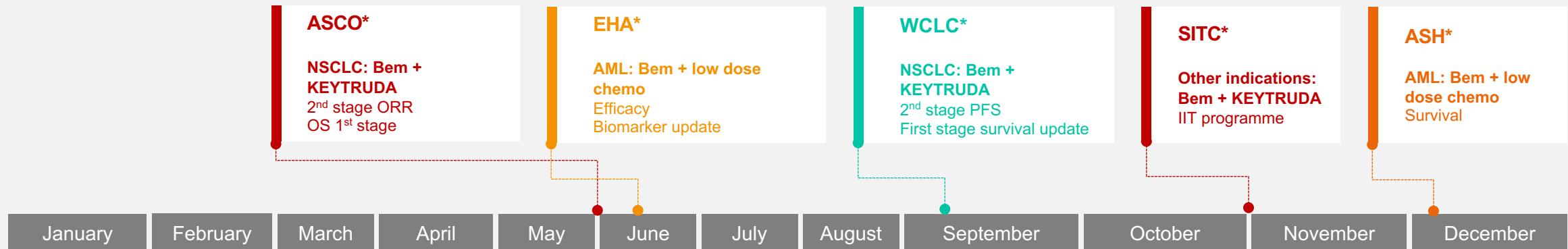
Based on anti-AXL antibody BGB601 licensed from BerGenBio

Near term goals and news flow





Anticipated clinical data readouts and operational milestones for 2019



* expected

Q1
➤ 1L/2L AML chemo combo top line data
➤ Complete recruitment stage 2 bem + KEYTRUDA (NSCLC)

Q2/Q3
➤ **Initiate randomised programme**
➤ Complete Phase 1 BGB149

Q4
➤ Initiate first-in-patient trials BGB149

Upcoming company news flow and value creating catalysts

Strategic priority	Goals		
Late stage clinical trials with bemcentinib	H2 2018	Clinical PoC monotherapy AML	✓
	H2 2018	Clinical PoC combo in NSCLC	✓
	H1 2019	Clinical PoC combo in AML	
	H2 2019	Start late stage clinical programme	
	H2 2020	Interim read-out late stage clinical programme	
Develop Companion Diagnostics	H2 2018	Identify candidates that correlate with efficacy	✓
	H2 2020	Validate candidates in late stage clinical programme	
	H2 2021	Clinical assay developed	
BGB149 anti-AXL antibody programme	H2 2018	Initiate first-in-man phase I trial	✓
	H2 2019	Initiate first-in-patient phase Ib trial	
	H2 2020	Interim readout	
Maximise value for bemcentinib	H1 2019	Initiate pipeline opportunities for bemcentinib via ISTs	✓

Financial review: Good financial position and cost control

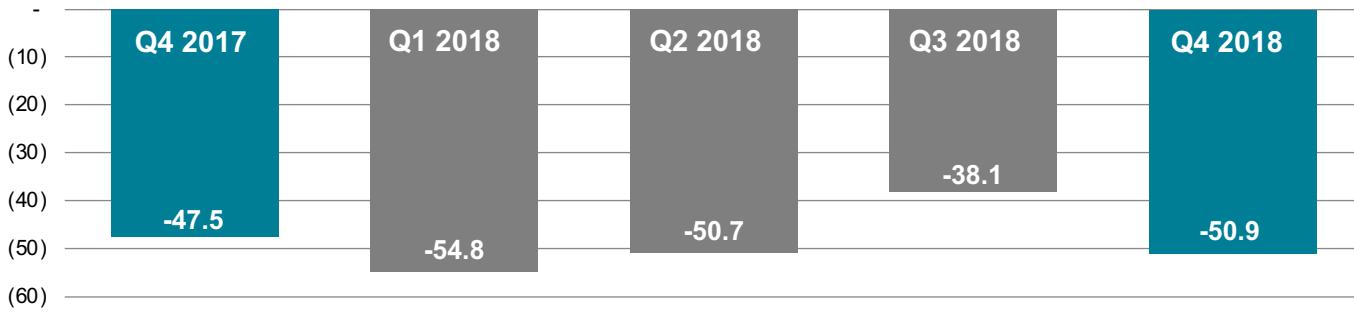
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Key financial figures

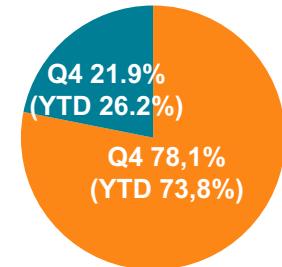
(NOK million)	Q4 2018	Q4 2017	FY 2018	FY 2017
Operating revenues	2.3	0	2.3	0
Operating expenses	53.2	47.5	196.9	183.7
Operating profit (loss)	-50.9	-47.5	-194.5	-183.7
Profit (loss) after tax	-51.1	-47.6	-191.7	-182.2
Basic and diluted earnings (loss) per share (NOK)	-0.93	-0.96	-3.60	-4.01
Net cash flow in the period	-37.8	-28.8	-9.9	208.5
Cash position end of period	360.4	370.3	360.4	370.3

Operating profit (loss) million NOK



- Q4 18 operating loss reflecting level of research and development activities in the quarter
 - Revenue NOK 2.3 million, licence revenue triggered by pre-clinical milestone (ADCT-601)
 - Stage 2 of NSCLC combination with Keytruda re-opened in Q4 18 and ongoing (mandatory safety review in Q3 18)

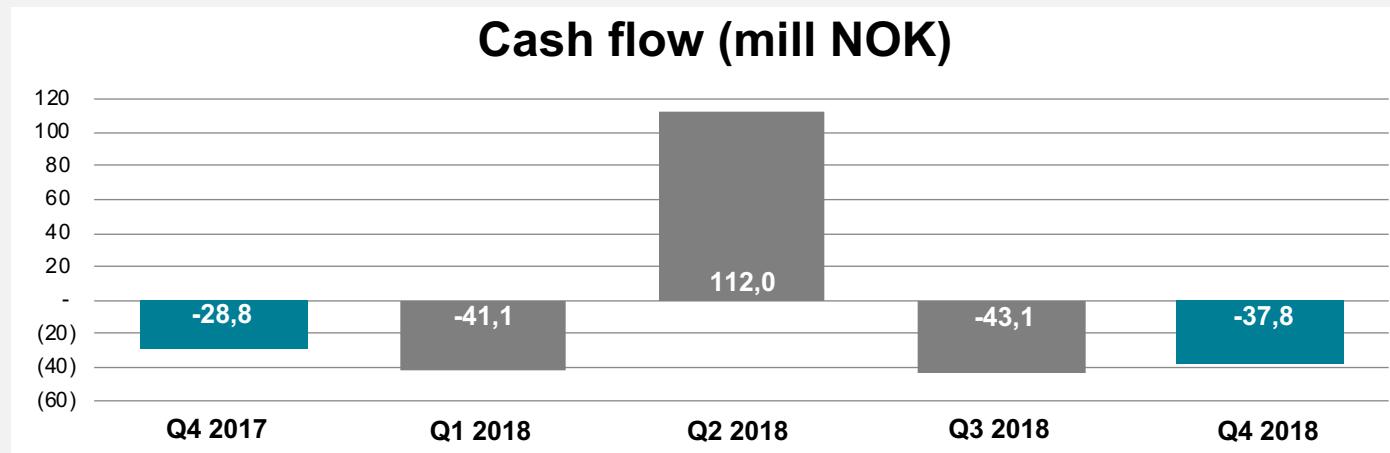
Operating expenses Q4 2018



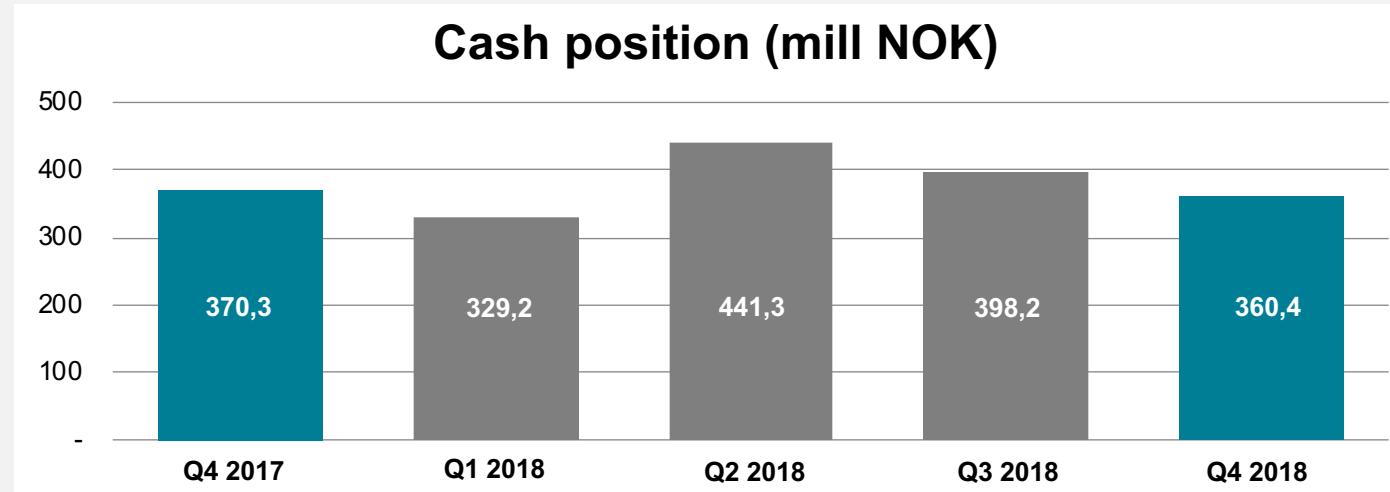
■ R&D ■ Administration

- Effective organisation
- 78.1% (YTD 73.8%) of operating expenses in Q4 2018 attributable to Research & Development activities

Cash flow and cash position



- Private placement Q2,18 strengthened cash position - gross funds raised NOK 187.5m
- Quarterly cash burn average 2018 at NOK 46.7 million



- Cash position gives runway to deliver key clinical read outs from ongoing clinical studies
- Cash runway into 2020 based on current burn rate

Full year 2018 highlights

Strong Phase II PoC clinical data readouts with bemcentinib:

All operational milestones met with data presented at international clinical congresses

Data paving the way to late stage clinical trial programme in 2019:

Targeting monotherapy and combination opportunities in AML/MDS and NSCLC

Pipeline opportunities pursued to complement key internal programmes:

Investigator-led studies broaden oncology applications; rationale in fibrosis

Bemcentinib biomarker programme progressed:

Efficacy correlation with AXL reported in clinical trials