

Conditionally Active Biologics: Transforming Cancer Therapy

Jefferies Global Healthcare
Conference

June 2022



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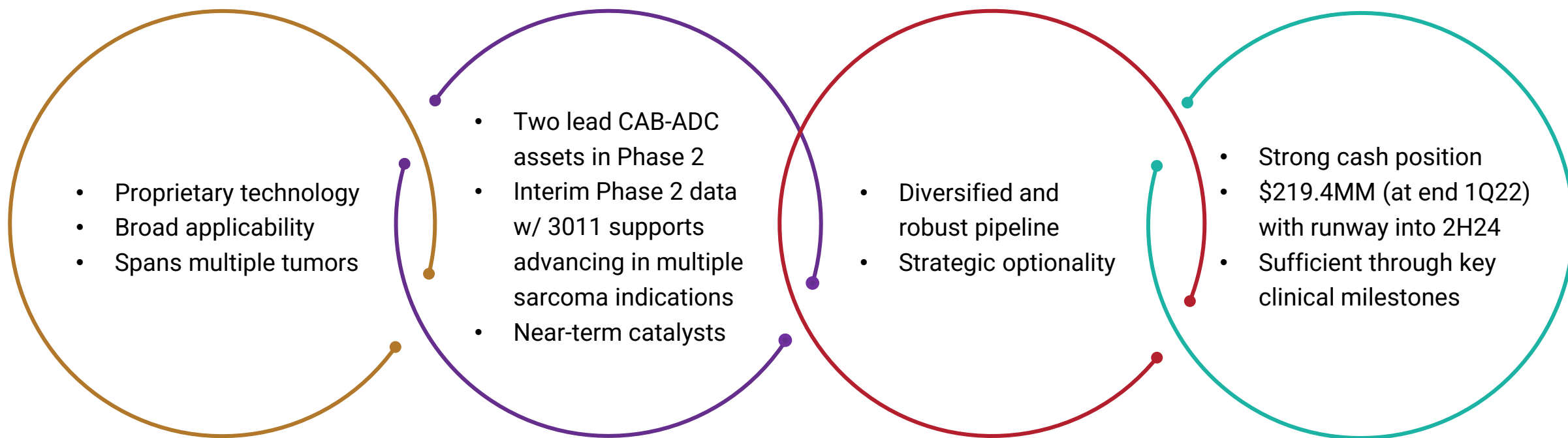
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BioAtla[®] is a clinical stage company focused on transforming cancer therapy

with **Conditionally Active Biologics (CABs)**



Selective and targeted CAB technology widens therapeutic index, thus has the potential to enhance clinical outcomes in multiple tumor types



BioAtla discovered that **acidic pH** at the **cancer cell** surface **unveils binding sites** that are **shielded** at normal pH of **healthy cells**



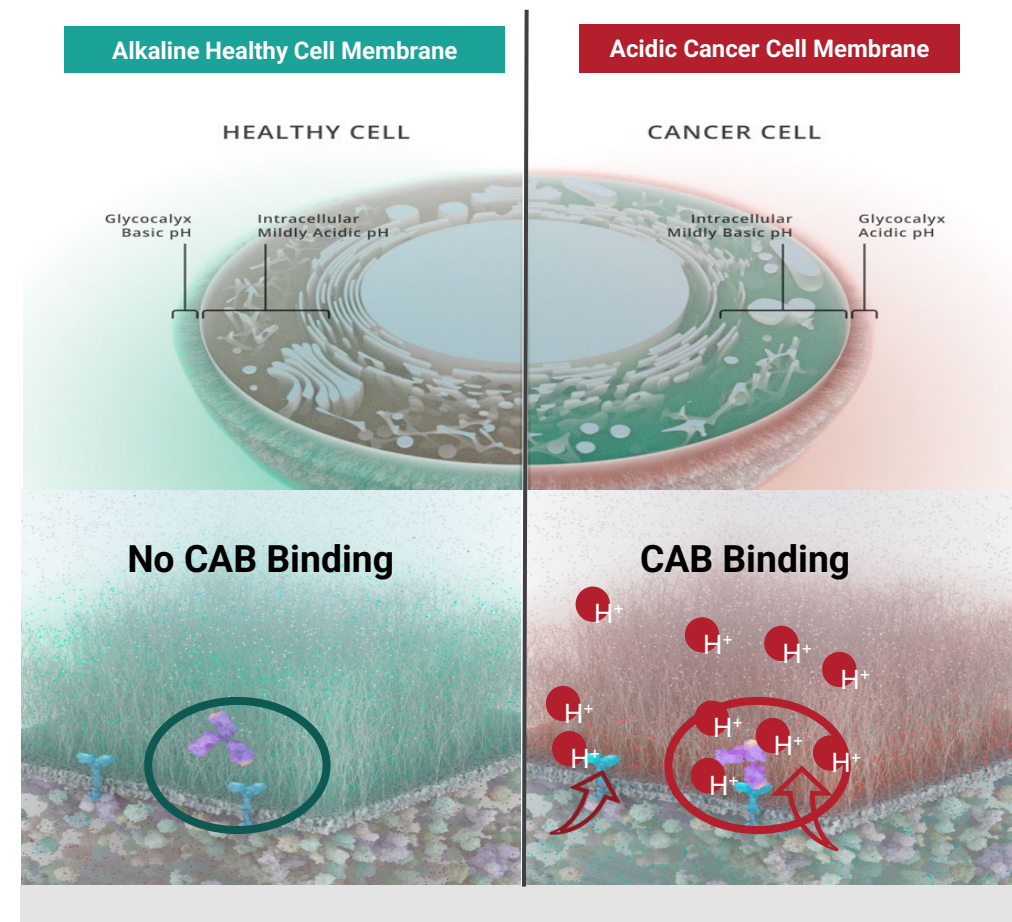
BioAtla invented CAB technology, creating antibodies that **bind *only*** to these unveiled sites **on cancer cells**



CAB binding region **is not masked or caged** and thus different from **prodrugs** that **require irreversible enzymatic cleavage** to become activated



CAB antibodies have the potential for **increased efficacy** with **improved safety** relative to traditional antibodies



Chang, H.W., Frey, G., Liu, H., Xing, C., Steinman, L, Boyle, B.J., & Short, J.M. (2021) PNAS 118(9): 1-10, Suppl. 1-19.

Focused pipeline with broad applicability of differentiated CAB assets designed to deliver near-term value

	CAB Program	Target	Indications	IND Enabling Pre-Clinical	Phase 1 Clinical	Phase 2 Clinical	Anticipated Milestones
CAB-ADCs	BA3011 <i>Mecbotamab Vedotin</i>	AXL	<ul style="list-style-type: none"> STS & Bone Sarcoma NSCLC Ovarian Cancer* 				<ul style="list-style-type: none"> ✓ Interim sarcoma update Q1 earnings • Phase 2 interim NSCLC clinical data Q2 earnings ✓ Ovarian IIT dosing 1H22
	BA3021 <i>Ozuriftamab Vedotin</i>	ROR2	<ul style="list-style-type: none"> NSCLC Melanoma SCCHN Ovarian Cancer* 				<ul style="list-style-type: none"> • Phase 2 interim NSCLC and melanoma data mid-year / 2H22 • SCCHN trial dosing 1H22 ✓ Ovarian IIT dosing 1H22
CAB-I/O	BA3071	CTLA-4	<ul style="list-style-type: none"> Multiple tumor types** 				<ul style="list-style-type: none"> • Trial dosing 1H22
CAB-Bi-specifics	BA3182	EpCAM & CD3	<ul style="list-style-type: none"> Adenocarcinoma** Multiple tumor types** 				<ul style="list-style-type: none"> • IND submission and Phase 1 initiation 2022
	Additional programs	Various	<ul style="list-style-type: none"> Multiple tumor types** 				<ul style="list-style-type: none"> • 2023 and beyond

* Phase 2 investigator-initiated trial for Ovarian Cancer ** Indications based upon tumor target expression



IIT, investigator-initiated trial; IND, investigational new drug; NSCLC, Non-small Cell Lung Cancer; RCC, Renal Cell Carcinoma; SCCHN, Squamous Cell Carcinoma of the Head and Neck; STS, Soft Tissue Sarcoma.

CAB-AXL-ADC Platform

BA3011 Mecbotamab Vedotin: Sarcoma and NSCLC

Significant opportunity for BA3011 in Sarcoma and NSCLC

to fill unmet medical needs



Current treatments for AXL+ tumors are insufficient, leading to high recurrence rates, rapid progression, low survival rates, and drug-related toxicities



Our Phase 1 studies revealed positive clinical signals across sarcoma and NSCLC, demonstrated by durable clinical responses (PFS and PR), and reductions in tumor size

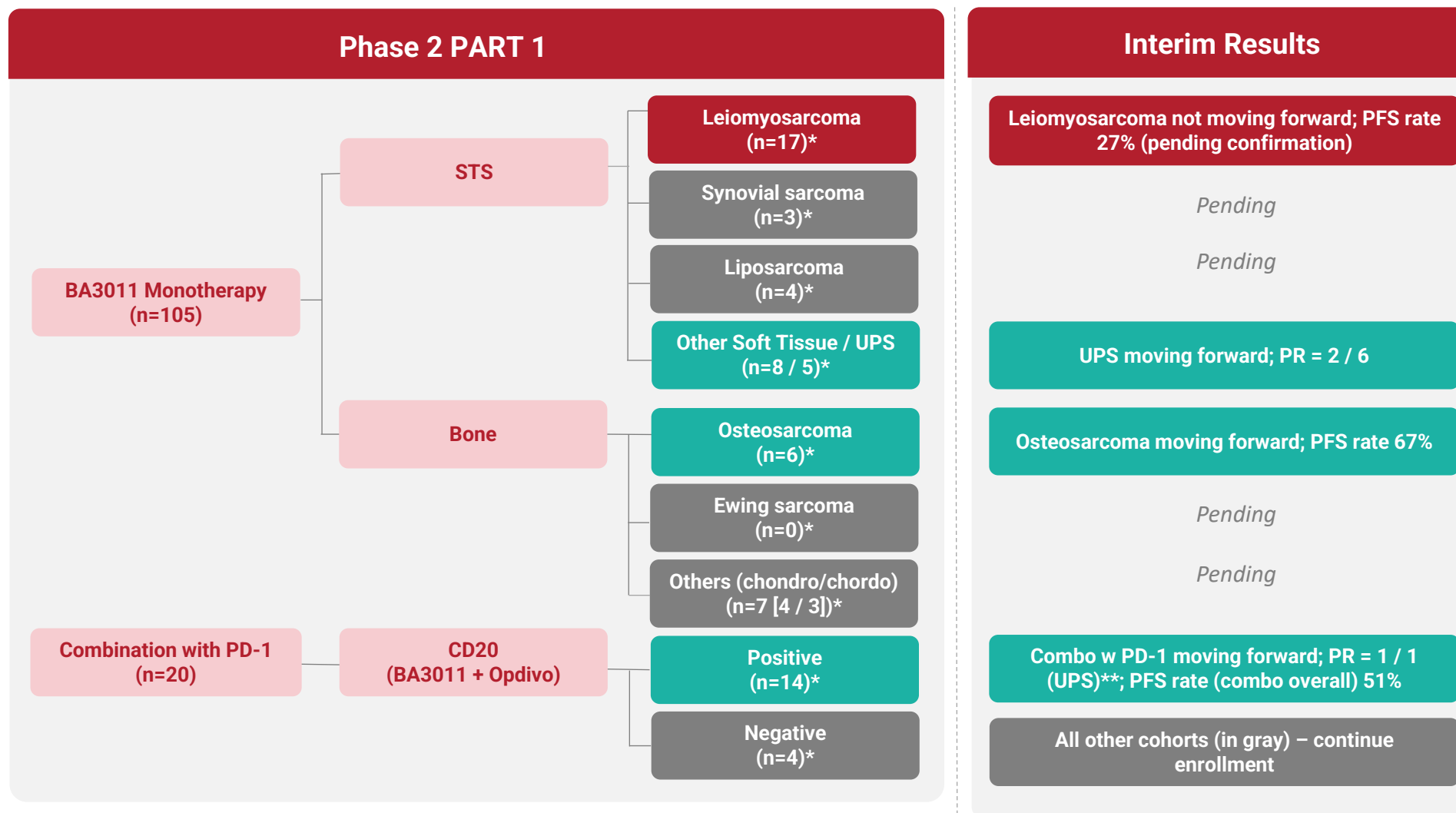


We have two ongoing Phase 2 studies in sarcoma and NSCLC



We are excited to advance towards our transition to commercial-stage company while filling a significant unmet medical need for patients with AXL+ solid tumors

Sarcoma: Encouraging Phase 2 Part 1 Topline Interim Analysis Results



Interim results satisfied pre-defined 'Go' criteria into part 2 of the Phase 2 BA3011 study in both UPS and Osteosarcoma

Continued promising safety and tolerability profile observed in Phase 2 at the RP2D



No treatment-related deaths



Few treatment-related SAEs, consistent with MMAE-based toxicity, including: Reversible myelosuppression, Transient liver enzyme elevation, Metabolic disturbances



Few related AEs leading to treatment discontinuation



No clinically meaningful on-target toxicity observed over background



Differentiated profile due to avoiding on-target off-tumor toxicity

Encouraging Phase 1 results enables initiation of Phase 2 study in NSCLC

- A partial response was achieved in the AXL-high NSCLC patient refractory to multiple chemo PKIs and pembrolizumab failure

Phase 2 study and enrollment in refractory NSCLC patients:

Initial interim analysis	Next step	Phase 2 part 2	Endpoints
<ul style="list-style-type: none">• AXL+ ≥ 1 TmPS• Monotherapy and Combination with PD-1/L1• After ~20 pts complete 2 scans	<ul style="list-style-type: none">• If definitive, move into part 2 or stop program• Ability to continue enrollment up to ~40 patients, if desired	<ul style="list-style-type: none">• Combination (BA3011+Opdivo)• Monotherapy (BA3011)• n=100 per arm	<p>Primary endpoints</p> <ul style="list-style-type: none">• Confirmed ORR per RECIST v1.1• AEs or SAEs <p>Secondary endpoints</p> <ul style="list-style-type: none">• DOR, PFS, ORR, DCR, TTR, OS

A photograph of a female doctor in a white lab coat and blue scrubs, with a stethoscope around her neck, holding a clipboard and looking down at it. A patient's hands are visible in the foreground, resting on their lap. A teal diagonal line runs from the top left towards the center of the image.

CAB-ROR2-ADC Platform

BA3021 Ozuriftamab Vedotin – NSCLC and Melanoma

Encouraging Phase 1 results with BA3021 support advancing into Phase 2 in multiple indications



Phase 1 study

- NSCLC: PR (n= 2 / 3* ROR2+)
- Melanoma: CR (n= 1 / 1 ROR2+) - clearance of pulmonary metastases followed by normalization of adenopathy and continued CR off treatment for over 2 years
- SCCHN: PR (n= 1 / 1 ROR2+ PD-1/cetuximab refractory patient)
- Promising safety and tolerability profile across multiple tumor types



Phase 2 studies

- NSCLC ROR2+ patients w/ TmPS $\geq 1\%$; refractory to PD-1, EGFR, or ALK; mono & combination w/ PD-1; sample size n=40
- Melanoma ROR2+ patients w/ TmPS $\geq 1\%$; refractory to PD-1; mono & combination w/ PD-1; sample size n=40
 - CR (n= 1 / 1) on 1st scan, 3 doses
- SCCHN ROR2+ patients w/ TmPS $\geq 1\%$; refractory to PD-1 alone or in combination with platinum; mono & combination w/ PD-1; sample size n=40

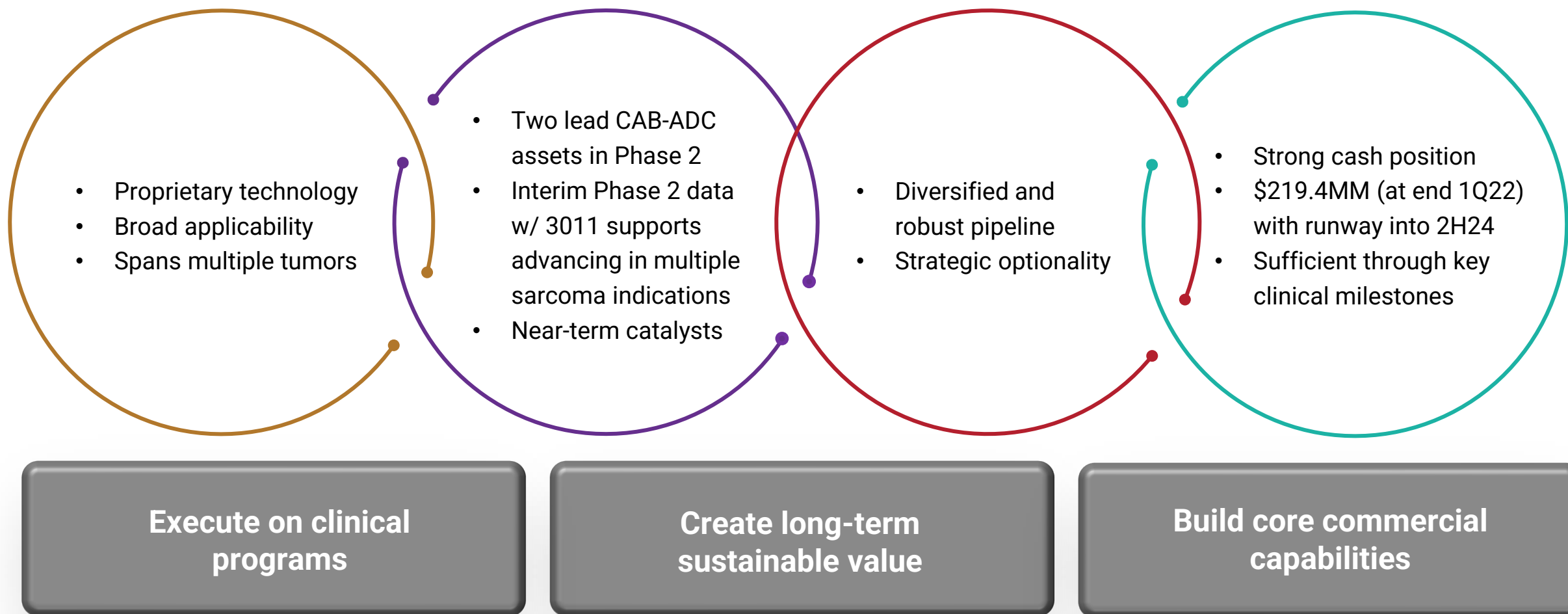
No ROR2 ADC or small molecules in the clinic to date, suggesting CAB-ROR2-ADC is potentially a first-in-class therapy across multiple tumor types

A number of key upcoming milestones in 2022

Program	Indications	2022	
		1H	2H
BA3011 <i>Mecbotamab Vedotin</i>	STS and bone sarcoma	✓ Phase 2 interim update	★ Phase 2 part 2 initiation
	NSCLC		★ Phase 2 interim data
	Ovarian*	✓ Phase 2 IIT dosing	
BA3021 <i>Ozuriftamab Vedotin</i>	NSCLC		★ Phase 2 interim data
	Melanoma		★ Phase 2 interim data
	SCCHN		★ Phase 2 dosing
	Ovarian*	✓ Phase 2 IIT dosing	
BA3071	Multiple tumor types**		☆ Phase 1 / 2 dosing
BA3182	Adenocarcinoma** Multiple tumor types**		★ IND submission / Phase 1 initiation

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