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This report contains certain forward-looking statements based on uncertainty, since they relate to events and depend on circumstances that will occur in future and which, by their nature, will have an impact on the results of operations and the financial condition of Targovax. Such forward-looking statements reflect the current views of Targovax and are based on the information currently available to the company. Targovax cannot give any assurance as to the correctness of such statements.

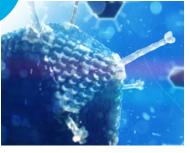
There are a number of factors that could cause actual results and developments to differ materially from those expressed or implied in these forward-looking statements. These factors include, among other things, risks or uncertainties associated with the success of future clinical trials; risks relating to personal injury or death in connection with clinical trials or following commercialization of the company's products, and liability in connection therewith; risks relating to the company's freedom to operate (competitors patents) in respect of the products it develops; risks of non-approval of patents not yet granted and the company's ability to adequately protect its intellectual property and know-how; risks relating to obtaining regulatory approval and other regulatory risks relating to the development and future commercialization of the company's products; risks that research and development will not yield new products that achieve commercial success; risks relating to the company's ability to successfully commercialize and gain market acceptance for Targovax's products; risks relating to the future development of the pricing environment and/or regulations for pharmaceutical products; risks relating to the company's ability to secure additional financing in the future, which may not be available on favorable terms or at all; risks relating to currency fluctuations; risks associated with technological development, growth management, general economic and business conditions; risks relating to the company's ability to retain key personnel; and risks relating to the impact of competition.



TARGOVAX'S POSITION IN THE FUTURE CANCER

TREATMENT LANDSCAPE

Targovax focus



Immune activators

Oncolytic viruses, vaccines

Immune modulators

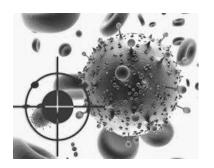
inhibitors

Surgery - Radio - Chemo



Immune boosters **Targeted** therapy

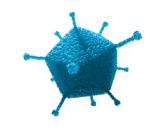






Two programs in clinical development, with an

ONCOLYTIC VIRUS LEAD PRODUCT CANDIDATE



ONCOS
Oncolytic virus

Lead product candidate

- Genetically armed adenovirus
- Alerts the immune system to recognize cancer antigens
- Induces T-cells specific to the patients' tumor
- 4 ongoing trials



TG
Neoantigen
vaccine

Pipeline product

- Shared neoantigen, therapeutic cancer vaccine
- Triggers the immune system to recognize mutant RAS cancers
- 1 ongoing trial

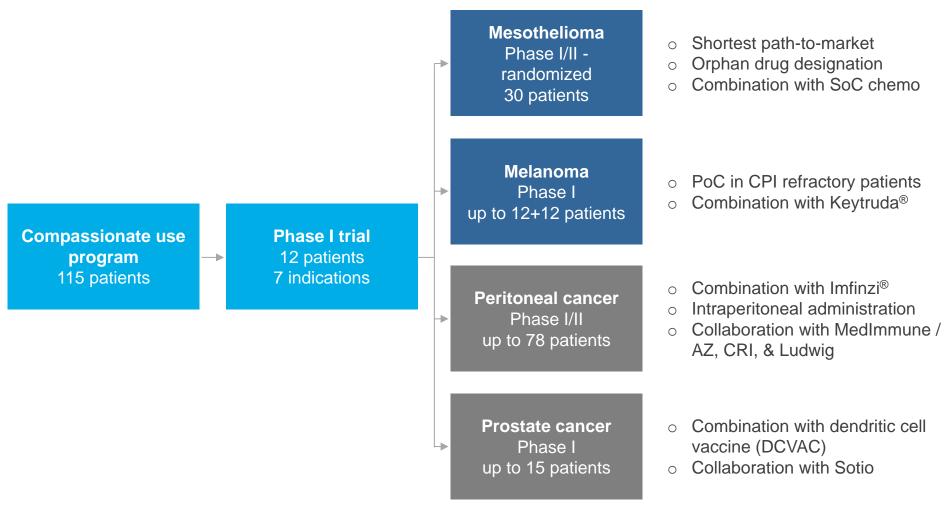
Triggers patientspecific responses

No need for individualization





ONCOS CLINICAL PROGRAM OVERVIEW





ONCOS-102 CLINICAL DATA SUMMARY



Various solid tumors Ph I Monotherapy

Patient population

- End-stage patients, 3rd line and beyond
- o 7 different solid tumors
- o 12 pts

Immune activation

- o Innate: 12/12
- o Adaptive: 11/12

Efficacy

- o 40% DCR
- 2 long-term survivors
- Survival correlated with TIL increase

Mesothelioma Ph I/II randomized with SoC chemo

- Metastatic
- 1st and 2nd/3rd line
- 6 pts completed trial to date
- Innate: 6/6 50% DCR
- o Adaptive: 3/4
- - o 1 PR
 - o 2 SD

Melanoma Ph I Combo with Keytruda[®]

- PD-1 refractory advanced melanoma
- 6 pts completed trial to date
- Innate: 6/6
 - Adaptive: 4/4
- 1 CR, w/supporting immune data
- o 3 local responders, but with distal progression

ONE PATIENT HAD A COMPLETE RESPONSE



following ONCOS-102 and Keytruda combination treatment

Baseline



Progression on Keytruda

Week 3



Partial response (PR) after 3x ONCOS-102 injections

Week 9



Complete response (CR) after 3x ONCOS-102 & 2 Keytruda infusions

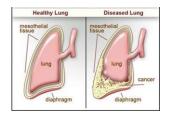




ONCOS CLINICAL DEVELOPMENT STRATEGY

1

Path-to-market Orphan indication

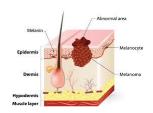


Target launch indication

- o Mesothelioma
- Orphan drug status
- o Combo with SoC chemo

2

Proof-of-conceptRe-activating CPIs



CPI refractory cancers

- CPI refractory melanoma
- Combo w/PD-1

3

Proof-of-concept New CPI indication



Indications with no/ limited effect of CPIs

- Ovarian and colorectal cancer with spread to peritoneum
- o Combo w/PD-L1

4

Next generation oncolytic viruses



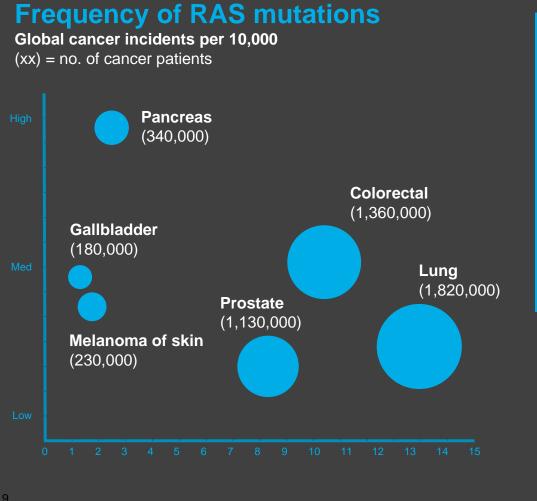
Platform expansion with new targets

- o Ongoing in vivo testing
- Novel targets and mode-of-action



The RAS gene is mutated in

90% OF PANCREATIC AND 50% OF COLORECTAL CANCERS



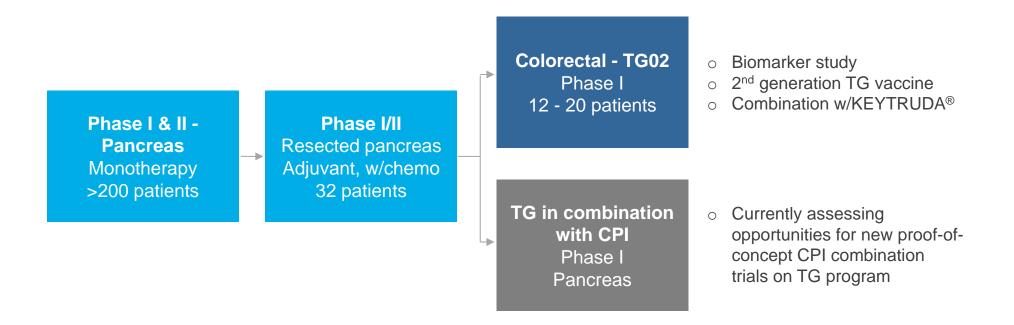
- RAS mutations are oncogenic and result in uncontrolled cell division
- There are no existing therapies targeting RAS mutations
- Targovax' TG program is a unique neoantigen vaccine approach for mutant RAS cancer





TG CLINICAL PROGRAM OVERVIEW

Phase I/II trial in resected pancreas cancer recently completed







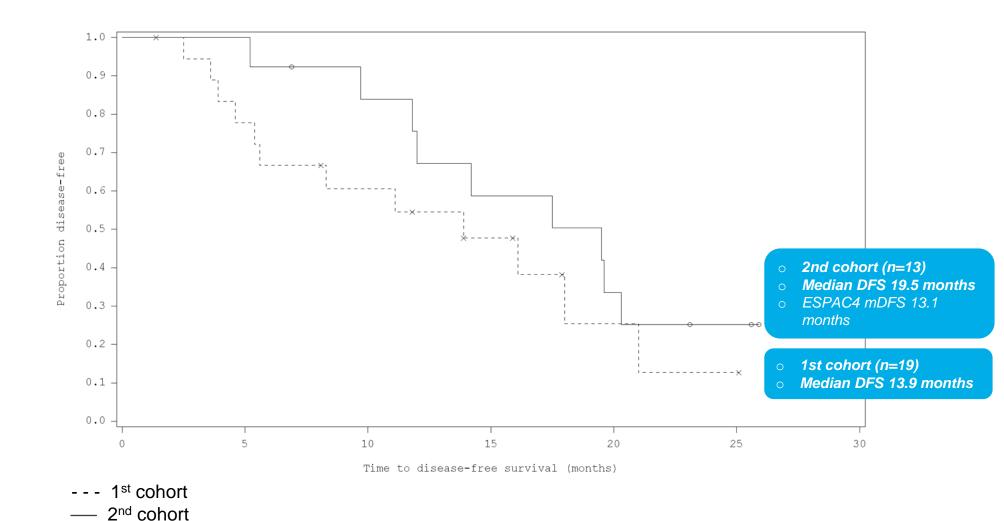
TG01 IN RESECTED PANCREATIC CANCER SIGNAL OF EFFICACY SEEN IN PHASE I/II TRIAL

Median overall	33.4 vs. 27.6 months reported in the ESPAC4 trial for gemcitabine alone (from time of surgery)				
survival	 First cohort: 33.1 months 				
	Second cohort: not yet reached				
Median disease	16.1 vs. 13.1 months reported in the ESPAC4 trial for gemcitabine alone (from time of surgery)				
free survival	 First cohort 13.9 months 				
	 Second cohort 19.5 months 				
mutRAS immune activation	94% (30 out of 32 patients) had RAS-specific immune activation				
Dosing and safety	Dosing regimen defined and TG01 is well-tolerated				

First cohort: 19 pts, Second cohort: 13 pts. Total 32 pts.



DISEASE FREE SURVIVAL FROM SURGERY



Censored= No progression on latest scan collected



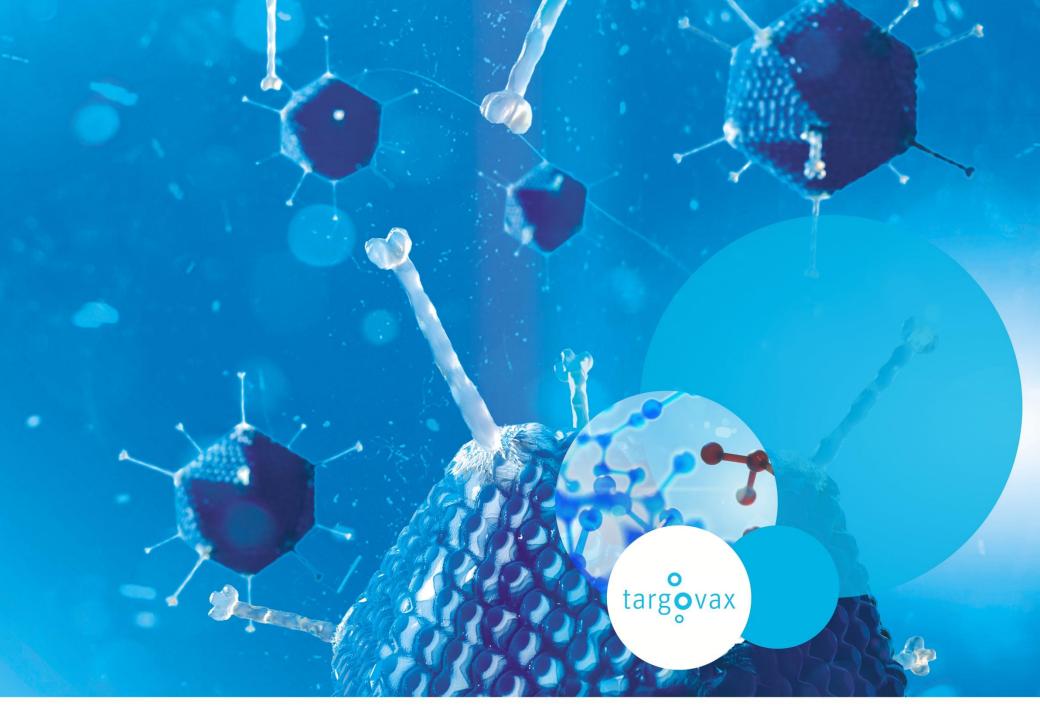
PIPELINE OVERVIEW AND MILESTONES

Platform	Product candidate	Preclinical	Phase I	Phase II	Phase III	Next expected event
ONCOS oncolytic adenovirus	ONCOS-102	Mesothelioma Comb. w/ pemetrexed/cis	platin			1H 2020 Randomized ORR data
		Melanoma Comb. w/KEYTRUDA®				1H 2019 ORR and immune data first cohort
		Peritoneal metastasis ¹ Collab: Ludwig, CRI & AZ Comb. w/IMFINZI [®]		 		Update by collaborator, expected 2019
		Prostate Collab: Sotio Comb. w/DCVAC		 		Update by collaborator, expected 2019
	Next-gen ONCOS	3 viruses undisclosed	 	 		2H 2019 Target disclosure and <i>in vivo</i> data
TG neo-antigen cancer vaccine	TG01	Pancreatic cancer Comb. w/gemcitabine				TBD
	TG02	Colorectal cancer Proof-of-mechanism Comb. w/KEYTRUDA®		 		1H 2019 Immune activation and mechanistic data (mono)
	TG02	CPI synergy TG + PD-1				1H 2019 TG02 + <i>in vivo</i> data

¹ Patients with advanced peritoneal disease, who have failed prior standard chemotherapy and have histologically confirmed platinum-resistant or refractory epithelial ovarian or colorectal cancer

Ongoing collaborator sponsored trials





Large deals in the last year show strong

INDUSTRY INTEREST IN ONCOLYTIC VIRUSES

Acquirer	Target	Type of deal	Deal value
Boehringer Ingelheim	ViraT herapeutics	M&A Phase I/II oncolytic virus	USD 250m up-front cash
○ MERCK	Viralytics Developers of Oncolytic Immunotheraples	M&A Phase I/II oncolytic virus	USD 400m up-front cash
Janssen PHARMACEUTICAL COMPANIES OF Johnson-Johnson	BeneVir	M&A Pre-clinical oncolytic virus	USD 140m up-front cash Up to USD 1b total value





BD partnership

Pre-clinical oncolytic virus

USD 15m milestone payment

Up to USD 1b total value