## PRECISION EXOSOMES REVOLUTIONARY MEDICINES



April 2022

## Forward-Looking Statements and Disclaimers

These slides and the accompanying presentation contain forward-looking statements and information within the meaning of the Private Securities Litigation Reform Act of 1995. The use of words such as "may," "might," "will," "should," "expect," "plan," "anticipate," "believe," "estimate," "project," "intend," "future," "potential," or "continue," and other similar expressions are intended to identify forward-looking statements. Information regarding other drug products in this presentation is meant to provide context for illustrative purposes only. Because there are no head-to-head clinical studies, no conclusions should be made based on cross study comparison. All forward-looking statements are based on current expectations of future events, estimates and assumptions by our management that, although we believe to be reasonable, are inherently uncertain. All forward-looking statements are subject to a number of risks and uncertainties that may cause actual results to differ materially and adversely from those set forth in or implied by such forward-looking statements, including those risks and uncertainties that are described under the heading "Risk Factors" in our Annual Report on Form 10-K for the year ended December 31, 2021, as well as discussions of potential risks, uncertainties and other important factors in our subsequent filings with the Securities and Exchange Commission. Any forward-looking statement speaks only as of the date on which it was made. We undertake no obligation to publicly update or revise any forward-looking statement, whether as a result of new information, future events or otherwise, except as required by law.



## Co-opting Nature's Delivery System/Creating a New Therapeutic Class



#### Exosomes: Nature's Highly Evolved Macromolecule Delivery System

#### The body's "FedEx"

### **Exosomes for Drug Delivery**

- Immune silent for tolerability and repeat dosing
- Compatible with multiple drug payloads
- ✓ Tropism for targeted cell delivery
- Delivery to intracellular and cell surface targets



## engEx<sup>™</sup> | Designing Drug Candidates with Preferential Cell Tropism





## Building Exosomes for Targeted Drug Delivery: Tropism + Route of Administration Expands the Therapeutic Window



## engEx<sup>TM</sup>: The Leading Exosome Platform for Drug Creation

- Proprietary exosome engineering and manufacturing technologies established
- Multiple drug payloads compatible with engEx Platform
- Preclinical POC with multiple drug modalities and routes of administration
- GLP toxicology conducted for subcutaneous and intravenous dosing
  - No adverse safety findings
- Clinical data from single and repeat doses in HV and cancer patients
  - Well-tolerated at tested doses
  - PD effects mirror preclinical animal studies
  - Targeted delivery improves therapeutic index (>100 fold)



## 2021 Momentum: Advancing Clinical Pipeline and Platform Progress

• exoSTING<sup>TM</sup> dose escalation data (cohorts 1-3 of 5) demonstrates differentiation

• exolL-12<sup>TM</sup> dose selection completed, enrollment initiated in CTCL

• exoASO<sup>TM</sup> -STAT6 IND Cleared by FDA

• Peer-review publications on engEx<sup>TM</sup> Platform, exolL-12 and exoSTING

• Strategic exosome manufacturing collaboration with Lonza; Center of Excellence

• Platform advancements reported for exoVACC<sup>TM</sup> and engEx-AAV<sup>TM</sup>



## 2022: Anticipated Clinical and Platform Milestones

• exoASO<sup>TM</sup>- STAT6 first-in-human dosing 1H'22

• exolL- $12^{TM}$  CTCL topline clinical activity data in late 1H'22

exoSTING<sup>TM</sup> complete dose escalation and dose selection (RP2D); data readout late 1H'22

• Peer-review publications on exoASO<sup>TM</sup>- STAT6<sup>\*</sup> and Platform advancements

• Potential strategic partnerships to further unlock engEx<sup>TM</sup> Platform value

Continue to invest in engEx<sup>TM</sup> Platform: Scientific Conference Presentations
 Pan Beta Coronavirus Vaccine pre-clinical POC 1H'22
 Advance engEx-AAV platform



## Expanding Pipeline of Precision Exosome Therapeutic Candidates

Candidate	Payload	Dose Route	Indication	Discovery	Preclinical	Phase 1	Phase 2	Phase 3	Worldwide Rights
Oncology									
exolL-12™	Biologic	ITυ	CTCL	CTCL Topline clinical activ data expected: H1 2			ty )22	CODIAK	
exoSTING™	Sm. Mol.	ITυ	Solid Tumors	Complete dose escalation data expected: H1 2022		ation 2022	CODIAK		
exoASO™ – STAT6	ASO	IV	Myeloid-rich Cancers (HCC; TAMs)				First-in-human dosin H1 2022	g:	CODIAK
exoASO™ – C/EBPβ	ASO	IV	Myeloid-rich Cancers (NSCLC; TAMs, MDSCs)						CODIAK
Oncogene Targets	TBD	TBD	Hematologic Cancers / Solid Tumors					Jazz Pharmaceuticals	
Vaccines and Tolerance									
exoVACC™	Vaccines Tolerance	TBD	Beta Coronavirus / EBV / HIV						CODIAK
engEx™ Platform									
engEx-AAV™	AAV Capsids	TBD	Gene delivery					CODIAK	

Definitions: iTu = Intratumoral; iTh = Intrathecal; IV = Intravenous; IM = Intramusuclar



## EXOSTING<sup>TM</sup> FIRST-IN-HUMAN CLINICAL TRIAL: KEY OBSERVATIONS



## exoSTING<sup>™</sup>: Proof of Mechanism and Clinical Activity Signal

Data from First-in-Human Phase 1/2 Study (cohorts 1-3 of 5) demonstrates:

- ✓ Tumor retention of STING agonist, **no systemic exposure**
- ✓ No systemic inflammatory cytokine related AEs
- Favorable safety and tolerability profile at doses tested
- Innate and adaptive immune activation
- Antitumor activity in both injected and distal lesions



## exoSTING<sup>TM</sup> Phase 1/2 Trial: Study Design

CODIAK



- Intratumoral injection in 1-3 lesions
- Heavily pre-treated patients
- Serial tumor biopsies and blood for PK/PD assessment
- Tumor CT scans every 8 weeks (ORR)
- Phase 2 dose selection

## **exoSTING™** Dose Dependent STING Pathway Activation



- Identical biomarker to MK1454
- All doses of exoSTING active
- Clear dose-dependency
- >100-fold more potent than MK1454 and ADU-S100
- No bell-shaped dose response at high-dose leading to loss of induction of CXCL10

\*all patients who received  $\geq$  1 dose with available PD biomarker data

## **exoSTING™** CD8 T Cell Infiltration and Activation Following Treatment



Cohort 2: 1 mcg dose level

CODIAK





Jang SC et al., Communications Biology 2021

- Adaptive immune-response with 3 and 11- fold increase in CD8 T cells in 2/2 patients with paired biopsies
- Recruit stem-like progenitor effector CD8+/TCF7+ T Cells (non-exhausted)
- PD-L1 Negative tumor to PD-L1 Positive
- Strong correlation with preclinical data

# **exoSTING™** Case study: 1 mcg Dose, Clinical Signal in Noninjected Distal Lesion

42 yo female with Parotid Gland Carcinoma Progression on 4 lines of prior chemotherapy



- On study drug for >7 months
- 74% decrease in noninjected tumor (distal abscopal effect)
  - Injected tumor:
    - 3-fold increase in CD8 T cells
    - 43-56% decrease in tumor cell content
    - PD-L1 negative to PD-L1 positive
    - Consistent with pseudoprogression





# **exoSTING™** Case study: 3 mcg Dose, Clinical Signal in Injected Lesion

75 yo male with Cutaneous Squamous Cell Carcinoma Progression on 3 lines of therapy, failed prior PD-1 inhibitor



- 11-fold increase in CD8+ T cells in injected tumor #1
- PD-L1 low tumor to PD-L1 high (#1)
- 77% shrinkage of injected lesion #2



Pre-treatment

![](_page_15_Picture_8.jpeg)

After treatment

16

![](_page_15_Picture_10.jpeg)

## **exoSTING<sup>TM</sup>** Future Data and Clinical Direction

- Complete enrollment in cohorts 4 and 5 in late 1H'22
- Determine Recommended Phase 2 Dose in late 1H'22
- Assess antitumor activity from dose escalation in late 1H'22
- Single agent and combination strategies:
  - Single agent indications eg. Parotid Gland tumors, cSCC, Sarcomas
  - Combination with PD-1 inhibitor or exolL-12 (SITC Presentation)

![](_page_16_Picture_7.jpeg)

## exolL-12<sup>™</sup>

![](_page_17_Figure_1.jpeg)

#### Best in Class IL-12 Profile in HV Study

- ✓ Complete tissue retention of IL-12
- ✓ Lack of systemic exposure to IL-12
- ✓ Lack of treatment-related AEs
- ✓ Local, potent, prolonged PD effect
- Confirmed 6 µg Q2wk for Part B

![](_page_17_Picture_8.jpeg)

![](_page_17_Figure_9.jpeg)

![](_page_17_Picture_11.jpeg)

## exolL-12<sup>™</sup> Phase 1 Trial in CTCL: Data Expected In Late 1H 2022

Study Design	Expected Data			
Dose Escalation Expansion	Endpoint Measures			Desired Outcome
	PK PLASMA	IL-12	Ρ	Plasma levels low/absent
monotherapy	PLASMA BIOMARKERS	IFN-γ Nanostring	L	ack of systemic immune activation
3+3 and adaptive cohort enrichment	TISSUE BIOMARKERS (2 & 6 weeks after dosing)	IL-12 CD8 Nanostring	L L C	ocal IL-12 retention ocal Immune cell influx, proliferation, activation
Target Population: CTCL Stage IA/IIB	RESPONSE ASSESSMENT (4-week intervals)	CAILS injected CAILS noninjected mSWAT	F	DA precedented registrational endpoints

![](_page_18_Picture_2.jpeg)

## **exolL12<sup>TM</sup>** | Future Clinical Directions

- Continue enrollment of CTCL patients; data in late 1H'22
- PK/PD and preliminary efficacy from CTCL patients late 1H'22
- Enroll expansion cohort patients; (data 1H'23)
  - Confirm effect size, safety, distal effects
  - Expansion to other IL-12 responsive tumors
- Regulatory feedback and plan for pivotal studies next year

![](_page_19_Picture_7.jpeg)

## exoASO<sup>™</sup>-STAT6

![](_page_20_Figure_1.jpeg)

![](_page_20_Picture_2.jpeg)

#### Targeted Delivery, Targeted Therapeutic: Precision Medicine

- M2 immune-suppressive macrophage selective delivery
- Cell specific transcription factor regulation
- Potent single agent activity in HCC models
- STAT6 expression program in HCC negative prognostic indicator
- Initial focus on Hepatocellular Carcinoma
- Expansion into hepatic M2 rich metastases

![](_page_20_Picture_10.jpeg)

## exoASO-STAT6 (IV) Selectively Targets TAMs Leading to Potent Antitumoral Activity

![](_page_21_Figure_1.jpeg)

## exoASO<sup>™</sup>-STAT6 Ph1 Study Design – First Patient Anticipated H1 '22

![](_page_22_Figure_1.jpeg)

• Objective: determine the safety, tolerability, Pk/PD profile, MTD and/or RP2D

![](_page_22_Picture_3.jpeg)

## exoASO-STAT6 Expected Complete Data Readout in H1 2023

Endpoint Me	easures	Desired Outcomes
РК	STAT6 ASO	Rapid clearance from plasma
BLOOD BIOMARKERS	Serum Cytokines PBMC RNAseq	<ul> <li>Low levels of systemic inflammatory cytokines</li> <li>Pro-inflammatory gene expression phenotype</li> </ul>
TUMOR BIOMARKERS (pre-dose and 8 weeks post initial dose)	IHC: • STAT6/IL4R • Mac/M1/M2 • CD8/Treg • ASO RNAseq DNAseq	<ul> <li>Reduced expression of STAT6</li> <li>Macrophage reprogramming M2→M1</li> <li>CD8 T cell infiltration/activation</li> <li>ASO localization to tumor M2 macs</li> <li>Mutational analysis of tumor</li> </ul>
RESPONSE ASSESSMENT (8 week intervals)	RECIST 1.1, mRECIST, iRECIST post progression	• ORR >10%

![](_page_23_Picture_2.jpeg)

## EXOVACC<sup>TM</sup> VACCINE PLATFORM

![](_page_24_Picture_1.jpeg)

## exoVACC<sup>TM</sup>: A Versatile Exosome-based Vaccine Platform

![](_page_25_Picture_1.jpeg)

Flexible antigen display for T and B cell responses beta-Coronavirus, HIV, EBV, cancer

Diverse adjuvant & immunomodulator combinations

Enhanced cell-specific tropism

![](_page_25_Picture_5.jpeg)

## Urgent Need for a Pan-Coronavirus Vaccine

An alternative approach to address both current and future beta coronavirus pandemics

![](_page_26_Figure_2.jpeg)

#### Risk of new Beta-coronaviruses "jumping" to humans

## Ranking the risk of animal-to-human spillover for newly discovered viruses

Zoë L. Grange<sup>a,1</sup>©, Tracey Goldstein<sup>a,2</sup>, Christine K. Johnson<sup>a,2</sup>, Simon Anthony<sup>a,b,c,d</sup>, Kirsten Gilardi<sup>a</sup>, Peter Daszak<sup>b</sup>©, Kevin J. Olival<sup>b</sup>©, Tammie O'Rourke<sup>e</sup>, Suzan Murray<sup>f</sup>©, Sarah H. Olson<sup>9</sup>©, Eri Togami<sup>a</sup>©, Gema Vidal<sup>a</sup>©, Expert Panel<sup>3</sup>, PREDICT Consortium<sup>3</sup>, and Jonna A. K. Mazet<sup>a,1</sup>

5 of top 20 highest risk viruses are beta-coronaviruses

#### Mutationally driven therapeutic resistance

![](_page_26_Figure_8.jpeg)

![](_page_26_Picture_9.jpeg)

## Pan Beta Coronavirus Vaccine Offers Comprehensive Protection

![](_page_27_Picture_1.jpeg)

- Protection from emerging variants
- Protection from potential new beta Coronavirus'
- Both antibody & CD8 T cell immunity
- Mutation constrained T cell epitopes
- Broad global coverage Collaboration with Ragon Institute (of MGH, MIT and Harvard)

![](_page_27_Picture_7.jpeg)

![](_page_27_Picture_8.jpeg)

## exoVACC Induces a Comprehensive Immune Response

Induce both cellular and humoral immunity to enhance vaccine breadth and durability

- Strong Neutralizing Antibody response against multimeric RBDs
- RBD as antigen maintains focused response on mutationally constrained region essential for cell entry
- Broad neutralization against multiple variants and SARS CoV1
- CD8 T-cell response against conserved epitopes in all Beta-coronavirus'
- Broad immunity against current variants and new zoonotic transmission
- Durable immunity and with mucosal tissue resident T-cell response
  - Rapid immune response at site of virus exposure (first line of defense)
- Improved survival in *in vivo* challenge models

![](_page_28_Picture_10.jpeg)

## engEx-AAV<sup>™</sup> to Advance Gene Delivery

![](_page_29_Picture_1.jpeg)

#### AAV Gene Delivery: Not Quite "One and Done"

- Safety issues persist due to capsid dose/empty capsid issues
  - Clinical holds, patient deaths
- Immunogenicity of capsids prevents re-dosing
- Waning transgene expression
- exoAAV addresses these issues:
  - Functional AAV capsids inside exosomes
  - exoAAV not neutralized by AAV antibodies (repeat dosing)
  - Exosome tropism for selective delivery (lowers AAV dose)
  - Higher transduction efficiency than AAV
  - "Booster" to deal with waning expression

![](_page_29_Picture_13.jpeg)

## EngEx Successfully Creates a Functional exoAAV Gene Delivery Platform: "Catch AND Release"

## CATCH:

- BASP-1 as a scaffold for luminal loading
- Antibody (VHH) to catch AAV during synthesis
- 2-3 log improvement in capsid loading

## RELEASE:

- VHH(s) releases AAV at pH 5.5 in lyso-endosome
- Released AAV Transduces with high efficiency

![](_page_30_Picture_8.jpeg)

![](_page_30_Picture_9.jpeg)

## engEx<sup>TM</sup>: A Novel Platform for Drug Creation

- Proprietary exosome engineering and manufacturing technologies established
- Multiple drug payloads compatible with engEx Platform
- Preclinical POC with multiple drug modalities and routes of administration
- GLP toxicology conducted for subcutaneous and intravenous dosing
  - No adverse safety findings
- Clinical data from single and repeat doses in HV and cancer patients
  - Well-tolerated at tested doses
  - PD effects mirror preclinical animal studies
  - Targeted delivery improves therapeutic index (>100 fold)

![](_page_31_Picture_10.jpeg)

## Experienced Leadership, Continued Execution

#### **EXECUTIVE TEAM**

![](_page_32_Figure_2.jpeg)

#### **BOARD OF DIRECTORS**

Steven Gillis, Ph.D. Chairman Karen Bernstein, Ph.D. Director Charles L. Cooney, Ph.D. Director **Anne-Virginie Eggimann** Director **Jason Haddock** Director Theo Melas-Kyriazi Director Lini Pandite, MBChB Director Doug Williams, Ph.D. President, CEO

![](_page_32_Picture_5.jpeg)

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 Advance engEx-AAV platform

![](_page_33_Picture_7.jpeg)

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![](_page_34_Picture_1.jpeg)

## **Peer-Reviewed Scientific Publications**

![](_page_35_Picture_1.jpeg)

![](_page_35_Picture_2.jpeg)

#### A versatile platform for generating engineered extracellular vesicles with defined therapeutic properties

Sevin Dooley,<sup>1,2</sup> Russell E. McConndl,<sup>1,2</sup> Ke Xu,<sup>1</sup> Naruddeen D. Lewis,<sup>1</sup> Sonya Haupt,<sup>1</sup> Madeleine R. Younis Shelly Martin,<sup>1</sup> Chang Ling Sa,<sup>2</sup> Christine McCoy,<sup>2</sup> Raymond J. Monin,<sup>2</sup> Olga Barenkova,<sup>1</sup> Jorge Sanchez-in Chul Inne, 1 Chang Chui,<sup>2</sup> Range A. Marginen, 1 Danima Numhi I. Dudi. Barene, 1 Changel. Jane J. Kaberine Xia hang Ling Sia,<sup>1</sup> Christine M van Choi,<sup>1</sup> Rane A. Harrison

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opologically diverse macromolecules and represents a signifi- ant advance toward unlocking the therapeutic potential of EVs.	Members of both protein families were found to be abundant in IIVs derived from a variety of cell types and were selected for further investigation on scaffold proteins for IIV loading.
WHEOULTEDN introduce ranking IVVs are associate, hipdi membrane datasandi antidow rankeng by cells areas al. kingsitess of life with mice and physicing and discussion discipation with end-new rankeng Viv an emission de production discipation discussion discussion of the structure of the structure discipation of the struc- ture of the structure discipation discipation of the struc- ture of the structure discipation of the structure discipation of exerci- tic discipation of micel and structure discipation of the struc- ture discipation of micel and structure discipation of the struc- ture discipation of micel and structure discipation of the struc- ducture discipation of micel and structure discipation of the struc- ducture discipation of micel and structure and structure in the structure discipation of micel and structure structure discipation of the structure discipation o	We find that the over-speciation of PFGPIDs and MARCES family protein conclusion and the second second second second second second second second second second second second second 10 million of the second second second second second 10 million second second second second second second second second second second second second second conclusion second second second second second second (INSPI) liquids. RNA biology proteins cards, second sec
use," regenerative medicine," and neurodegenerative disorders."" While EVs have the potential to deliver therapextic polyaeds, sobust methods for EV engineering an locking, Molecules appended to the IV surface after partification by chemical coupling," or non-covolient tachment can discust the EV executes convestions or an errore to	Rearter 17 August 2004, scoped 12 Januar 2021; https://doi.org/10.1013/j.j. *Theo autors: monthand equally Consequencies: Early Studie; Coduk Bulicscore, 35 CarolenigeBult Drive, Kennek Intra-American Scope and Scope and Scope and Scope Rearter Internet Scope and Sc

Published online Jan 20, 2021 In print May 5, 2021 issue

#### exolL-12<sup>™</sup>

![](_page_35_Picture_9.jpeg)

Exosome Surface Display of IL12 Results in Tumor-Retained Pharmacology with Superior Potency and Limited Systemic Exposure Compared with Recombinant IL12

Constant Section

Chang Ling Sia, Katherine Kirwin, Sonya Haupt, Gauri Mahimkar, Tong Zi, Ke Xu, I Jang, Bryan Choi, Adam Boutin, Andrew Grube, Christine McCoy,

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Published online Dec 21, 2020 In print March 2021 issue

![](_page_35_Picture_15.jpeg)

## communications biology allular vesicle loaded with STING

#### communications biology

ARTICLE https://doi.org/10.1038/s4

ExoSTIN

agonist

ExoSTING, an extracellular vesicle loaded with STING agonists, promotes tumor immune

Chesit for updates

#### surveillance

Su Chul Jang (), Kyriakos D. Economides<sup>1</sup>, Raymond J. Moniz<sup>1</sup>, Chang Ling Sia<sup>1</sup>, Nuruddeen Lewis<sup>1</sup>, Christine McCoy<sup>2</sup>, Tong Zi<sup>1</sup>, Kelvin Zhang<sup>1</sup>, Rane A. Harrison<sup>1</sup>, Joanne Lim<sup>1</sup>, Joyoti Dey<sup>2</sup>, Marc Grenley<sup>2</sup> Katherine Kinvin<sup>1</sup>, Nikki L. Ross<sup>3</sup>, Raymond Bourdeau<sup>1</sup>, Agata Villiger-Oberbek<sup>1</sup>, Scott Estes<sup>1</sup>, Ke Xu<sup>2</sup>, Jorge Sanchez-Salazar<sup>1</sup>, Kevin Dooley<sup>1</sup>, William K. Dahlberg<sup>1</sup>, Douglas E. Williams<sup>1</sup> & Sriram Sathyanarayanan 0 100

dinucleotide (CDN) agonists of the STimulator of InterferoN Ge have shown immune activation and tumor clearance in pre-clinical models. However, CDNe administered intratumorally also promote STING activation leading to direct cytotoxicity of nany cell types in the tumor microenvironment (TME), systemic inflammation due to rapic asation of the CDN, and immune ablation in the TME. These result in a failure t and extended to the CDN where CDN and the CDN and explored that the CDN with the CDN where CDN and the CDN extended the CDN and explored extended with CDN, enhances the potency of CDN and preferentially activates antigen presenting cells in the TME. Following intratumoral injection, exoSTING was retained within the tumor, enhanced local Th1 responses and recruitment of CD81 T cells, and generated systemic anti-tumor immunity to the tumor. ExoSTING at therapeutically active does did not induce systemic inflammatory cytokines, resulting in an enhanced therapeutic window. ExoSTING is a novel, differentiated the EVs to enhance the activity of CDNs.

#### Published online April 22, 2021 via Open Access

#### exoASO<sup>™</sup>-STAT6

![](_page_35_Picture_25.jpeg)

![](_page_35_Picture_26.jpeg)

tumor-associated macrophages by exoASO-STAT6 leads to potent monotherapy antitumor activity

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Collak Bodciances Inc., Candeldan, MA 12140, USA "Corresponding author Ernal: dala berzyngcodakles.com (D.B.): einam aathyp codakleie.com (LSA)	glandin F2 receptor negative regulator (PTGFRN) have been shown to enhance delivery of drug cargo to myeloid cells includ- ing TAMs (20, 21).

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![](_page_35_Picture_31.jpeg)

## Fed Batch or Continuous Bioprocessing Technologies Established

- Broad IP filings
- Scalable
- MHRA and FDA reviewed
- Proprietary analytics

- High purity, product quality, stability
- Highly intensified processing
- Proprietary exosome drug-loading
- Multiple scales with multiple constructs

![](_page_36_Picture_9.jpeg)

![](_page_36_Picture_10.jpeg)

## Lonza Deal Holds Significant Strategic Value for Codiak

CODIAK

Solidifies Codiak's capacity for future manufacturing

Including late-stage clinical and potential commercial needs

Accelerates and expands Codiak's vision for our manufacturing platform, while retaining programs and core IP

**Enhances realization of our platform's full potential** By tapping into Lonza's modalities, facilities and financial resources

#### Advances exosome production as a whole

By leveraging strengths of both companies through formation of Center of Excellence

![](_page_37_Picture_8.jpeg)