

Determined to realize a future in which  
people with cancer live longer and  
better than ever before

Syndax 

CORPORATE PRESENTATION | JUNE 2017

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# Syndax investment highlights



## Entinostat IO

Combined with PD-1:

- **Signals in Mel, NSCLC**
- **Expanded into CRC**
- Ongoing trials in Mel, NSCLC, TNBC, Ovar
- Multiple near term readouts

## Entinostat HR+ Breast Cancer

Combined with exemestane:

- Breakthrough designation
- Phase 3 ongoing

## SNDX-6352

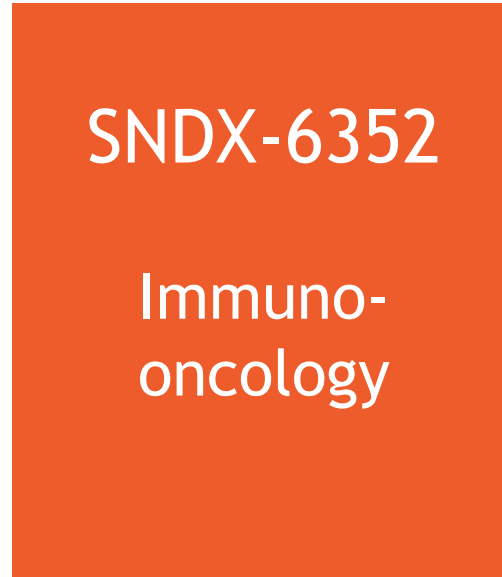
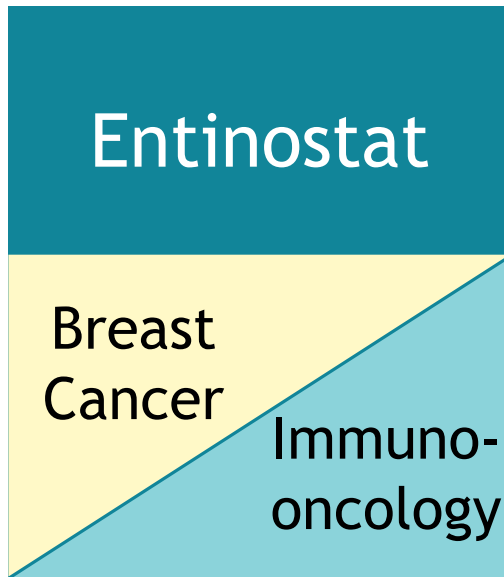
Anti-CSF-1R inhibitor

- Phase 1 ongoing
- Broad clinical potential

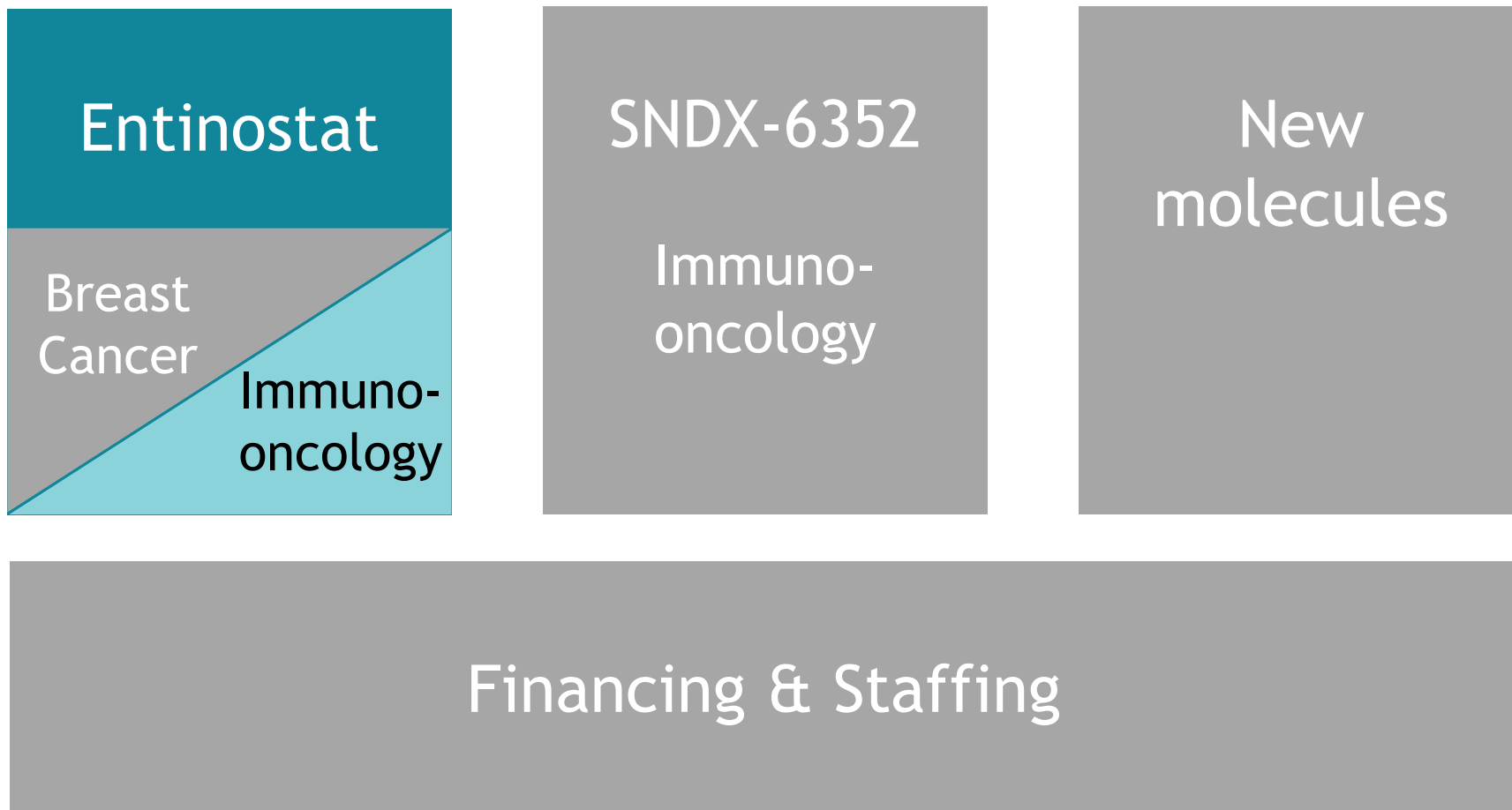
**Strong management team**

*CRC - colorectal cancer; NSCLC - non-small cell lung cancer; Mel - melanoma; TNBC - triple negative breast cancer; Ovar - ovarian cancer*

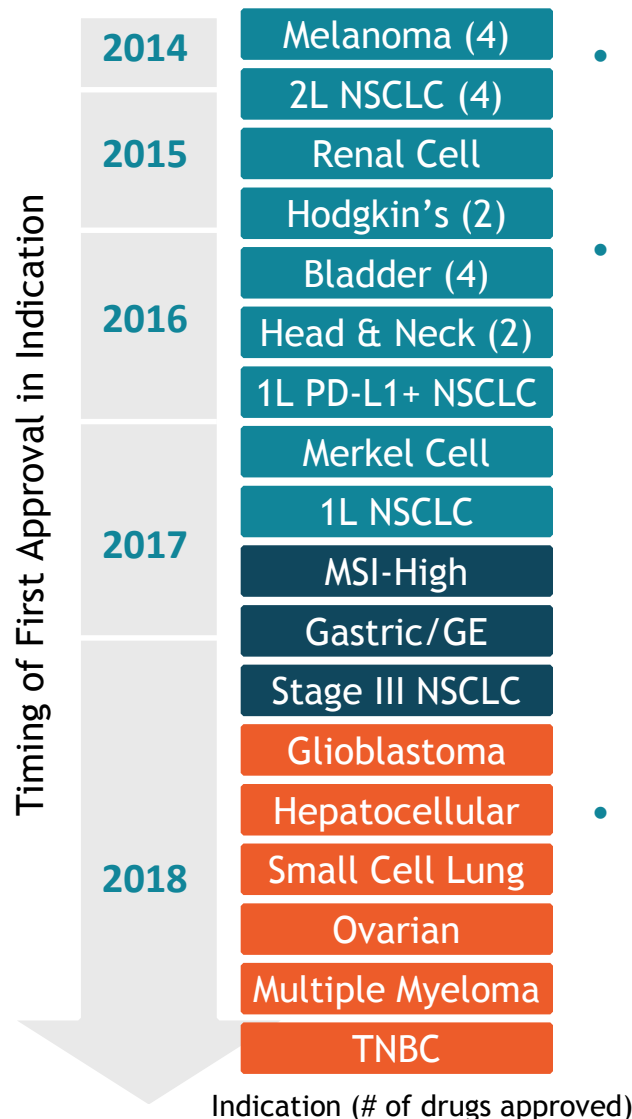
# Company strategy



# Company strategy



# Immuno-oncology (IO) is rapidly defining new therapeutic standards across oncology



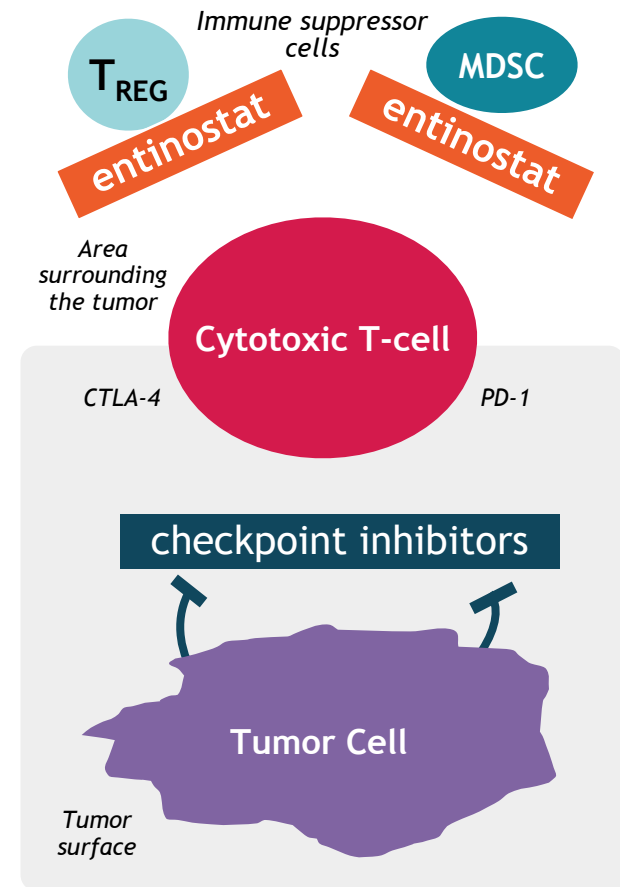
- Since 2014, **five** PD(L)-1 inhibitors have received **20** FDA approvals for **seven** different tumors
- Recent data suggest additional approvals near-term
  - **Bladder:** KEYTRUDA® PDUFA Jun '17
  - **MSI-High:** KEYTRUDA® (pembrolizumab) approval pending; OPDIVO® PDUFA (CRC only) Aug '17
  - **Stage III NSCLC:** IMFINZI® (durvalumab) Phase 3 positive for PFS
  - **Gastric:** Opdivo® (Nivolumab) Phase 3 positive for OS in Asia
- Phase 3 results expected in three new tumor types as well as NSCLC, melanoma, SCCHN, GE, HL, RCC and bladder in 2017

Source: [clinicaltrials.gov](http://clinicaltrials.gov); company press releases

# Strong rationale for combining entinostat with PD-1 antagonists

## Entinostat

- Class I selective HDAC inhibitor
- Oral, once weekly
- Well tolerated in combinations
- Blocks MDSCs and Tregs
- Preclinical efficacy combined with anti-PD-1



**Hypothesis: Entinostat can reverse resistance to PD-1 antagonists**

HDAC - histone deacetylase; MDSC - myeloid derived suppressor cell; Treg - regulatory T lymphocyte

# ENCORE 601 / KEYNOTE 142 Study Design

## Entinostat + KEYTRUDA®

Phase 1b:  
*open-label*

**Completed**

Dose & safety  
confirmation /  
biomarker  
assessment



Phase 2:  
*open-label*

**Ongoing**

NSCLC  
PD-1/PDL-1 - naïve  
n = 46

NSCLC  
Progressing on PD-1/PDL-1  
n = 56

Melanoma  
Progressing on PD-1  
n = 34

MSS CRC  
PD-1/PDL-1 - naïve  
n = 34

**Primary endpoint:  
*irRecist ORR***



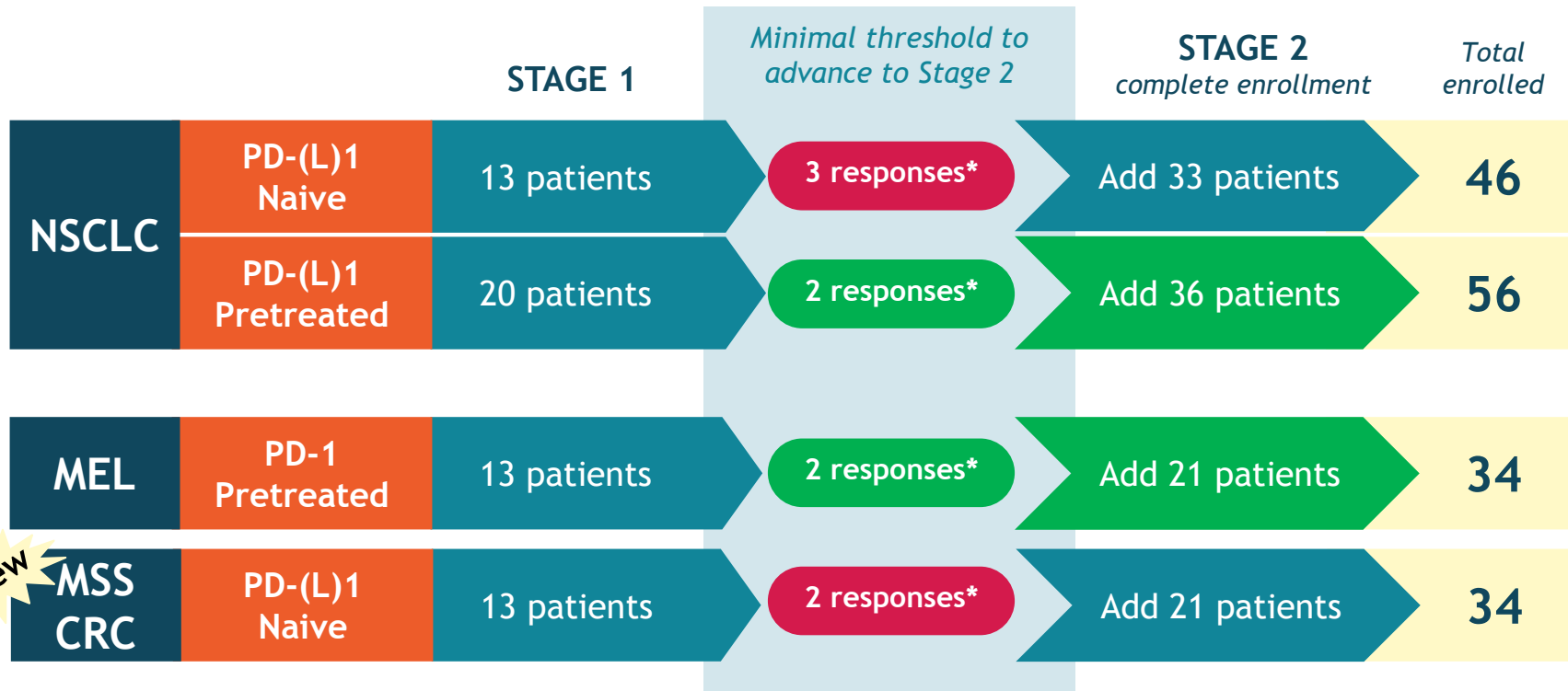
MSS - Microsatellite stable



# ENCORE 601/ KEYNOTE 142 expanded to include patients with colon cancer

## Entinostat + KEYTRUDA®

### Phase 2: Simon 2-stage design



\* Response defined as confirmed PR or CR

# ENCORE 601 Stage 1 melanoma patient demographics

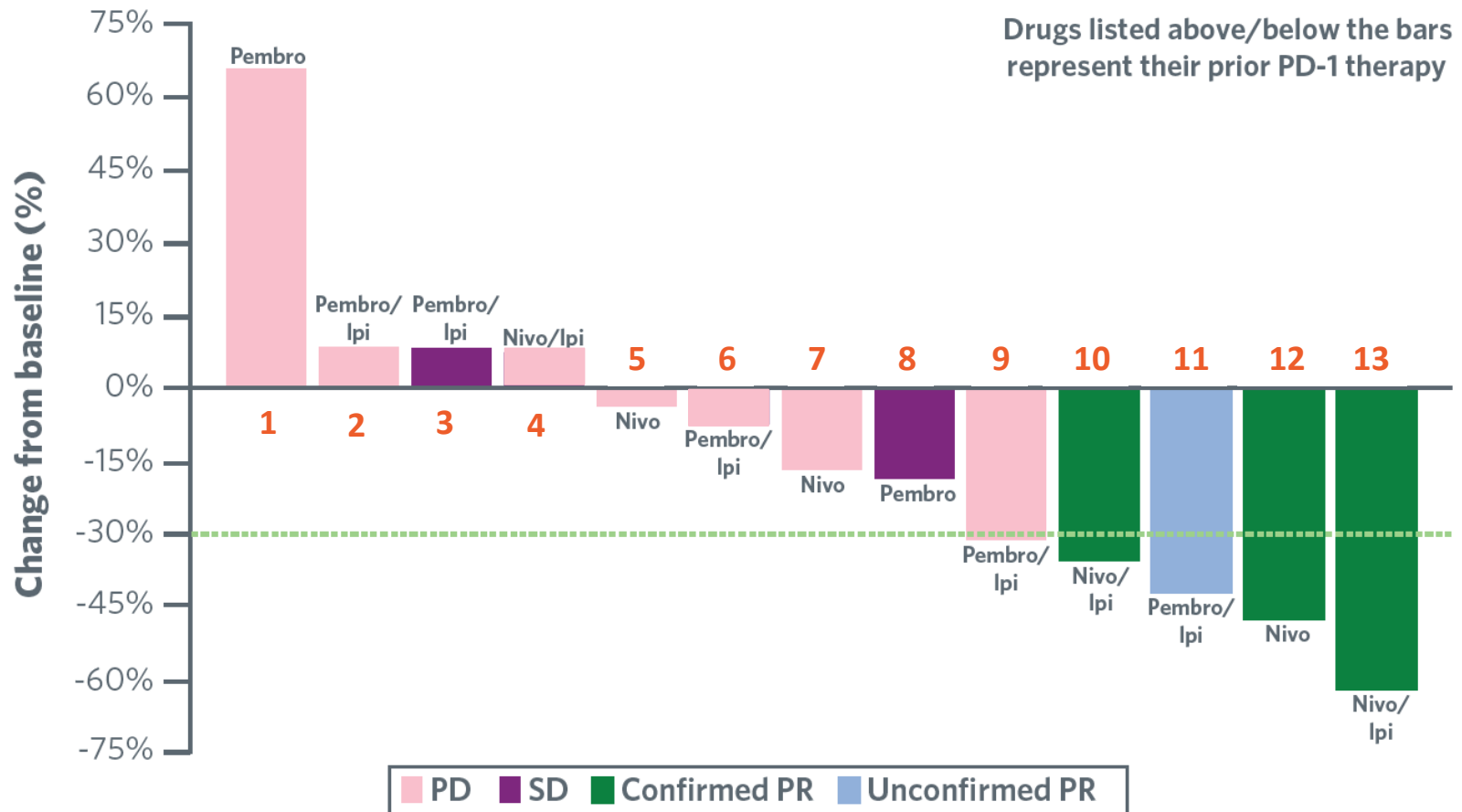
## KEYTRUDA<sup>®</sup> + entinostat

Characteristic, n (%)	Total (N = 13)
Male / Female	9 (69%) / 4 (31%)
Age, median (range), years	62 (38-86)
ECOG performance status 0 / 1	8 (62%) / 5 (38%)
Prior PD-1 monotherapy	5 (38%)
Prior CTLA-4 /PD-1 combination	8 (62%)
PD-L1 expression*: negative /positive /unknown	4 (31%) / 6 (46%) / 3 (23%)
Metastases: Visceral / Non-visceral	6 (46%) / 7 (54%)

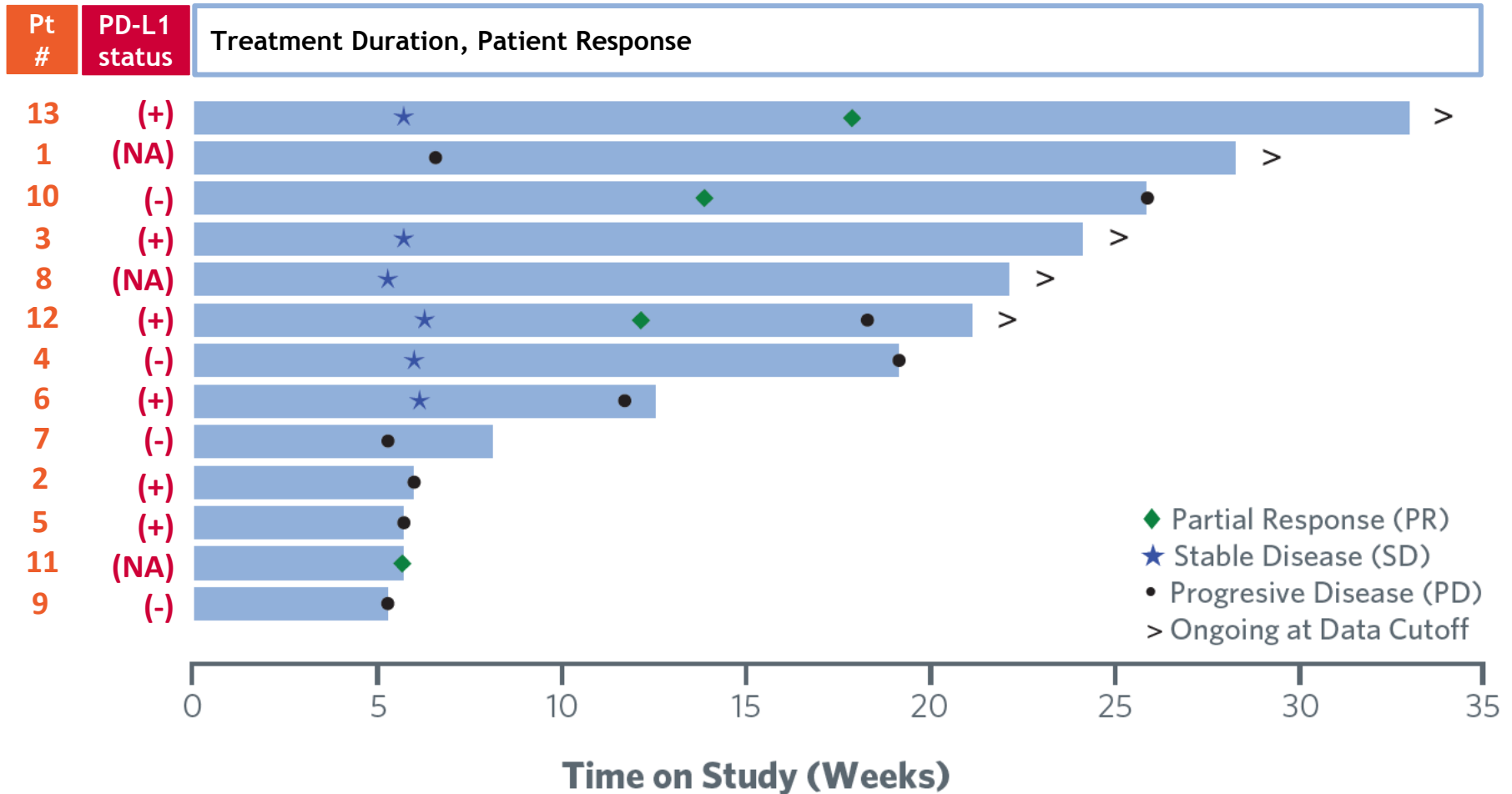
\* Fresh biopsy obtained at screening

# 31% response rate in patients previously progressed on or after treatment with a PD-1 antagonist

**Primary Endpoint: Overall Response Rate = 31% [95% CI (9% - 61%)]**



# irRECIST patient responses by investigator assessment



(+), (-), (NA) denotes PD-L1 expression status

# Treatment emergent adverse events (TEAE) observed in Melanoma cohort of ENCORE 601

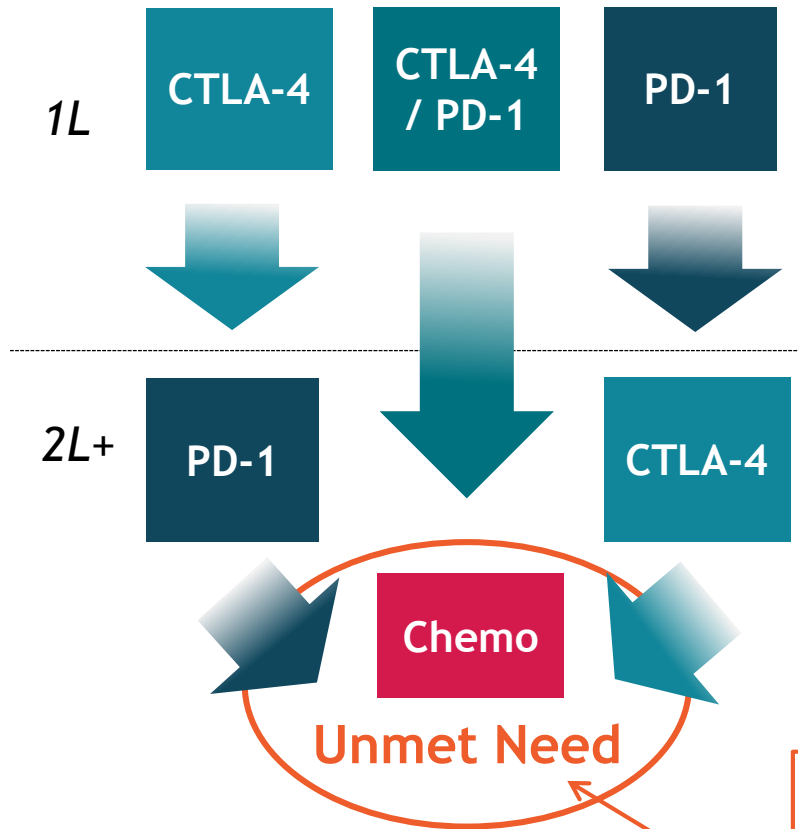
Preferred term, n (%)	Total (n = 13)
Any grade AE related to study treatment	10 (77%)
Nausea	7 (54%)
Diarrhea	3 (23%)
Pruritus	3 (23%)
Fatigue	2 (15%)

All related AEs of any grade occurring in  $\geq 2$  pts

- 13 (100%) patients experienced a TEAE
- 1 (8%) patient discontinued due to TEAE (autoimmune hepatitis probably related to KEYTRUDA)

Preferred term, n (%)	Total (n = 13)
TEAE with Severity $\geq$ Grade 3	8 (62%)
Increased Alanine aminotransferase / aspartate aminotransferase	2 (15%)
Atrial flutter	1 (8%)
Blood bilirubin increased	1 (8%)
Cellulitis	1 (8%)
Fatigue	1 (8%)
Hyponatraemia	1 (8%)
Hypovolaemia	1 (8%)
Nausea	1 (8%)
Rash	1 (8%)
Sepsis	1 (8%)
Urinary tract infection	1 (8%)

# Patient responses to KEYTRUDA-entinostat combo comparable with post-PD-1 responses



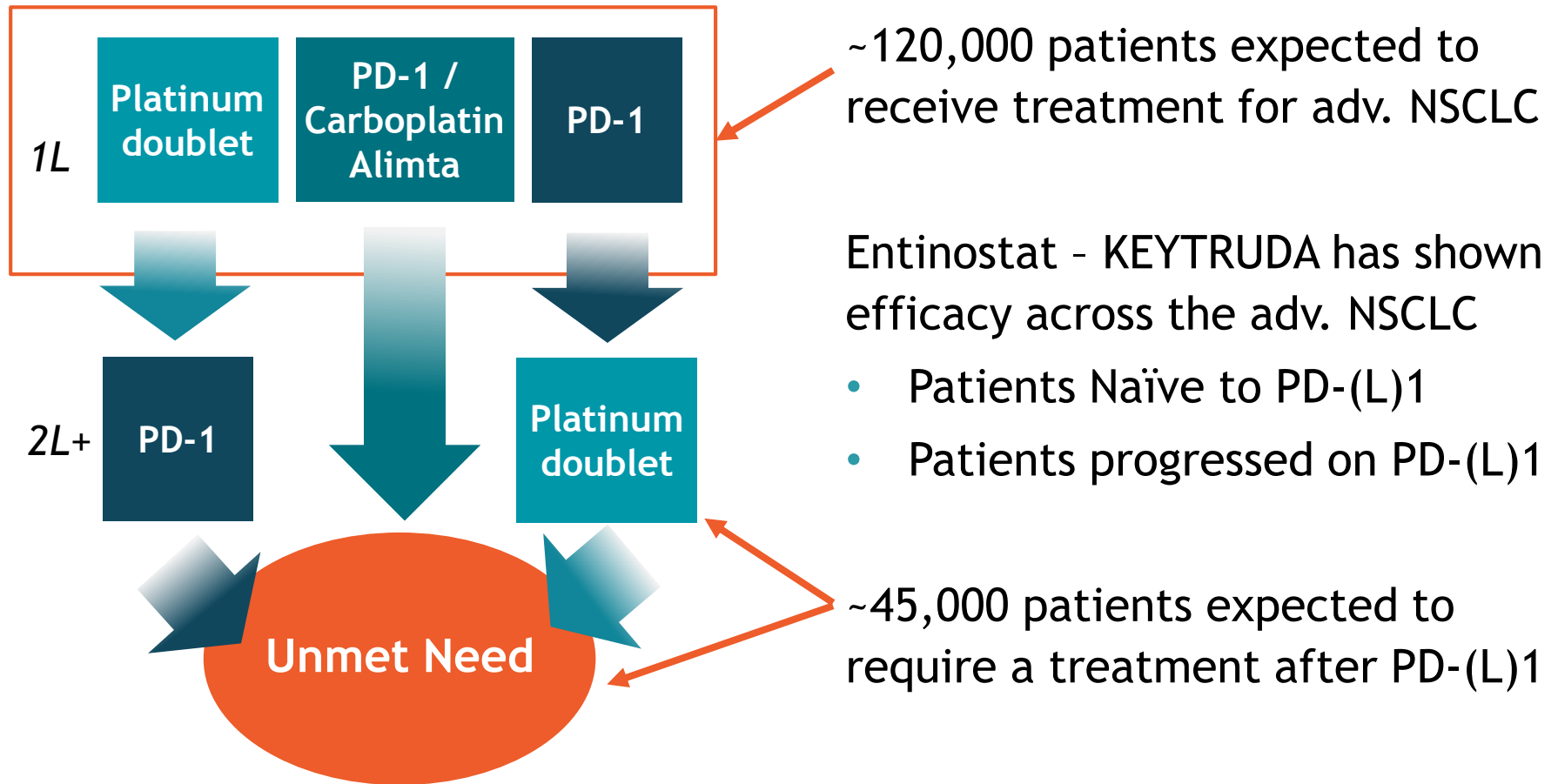
	1 <sup>st</sup> Line	2 <sup>nd</sup> line
Yervoy	19%	11-14%
Opdivo	34%-45%	32%^
KEYTRUDA	33%-42%	28%^
Yervoy/Opdivo	59%	
Dacarbazine	14%	
Chemotherapy*		4%-11%

^ After 1<sup>st</sup> line YERVOY;

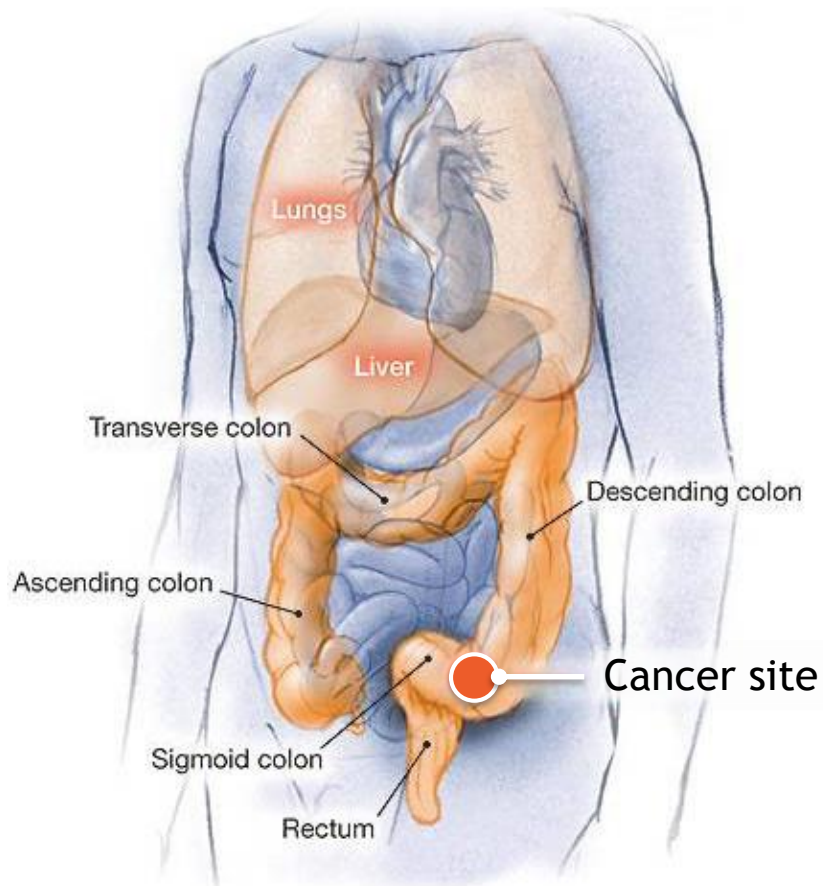
\*Investigator's choice chemotherapy could include (carboplatin, dacarbazine, temozolomide, or paclitaxel)

10,000 - 15,000 U.S. patients expected to require treatment after PD-1 antagonist

# Despite advances with checkpoint therapy, significant unmet needs remain for patients with NSCLC



# Rationale for expansion into CRC

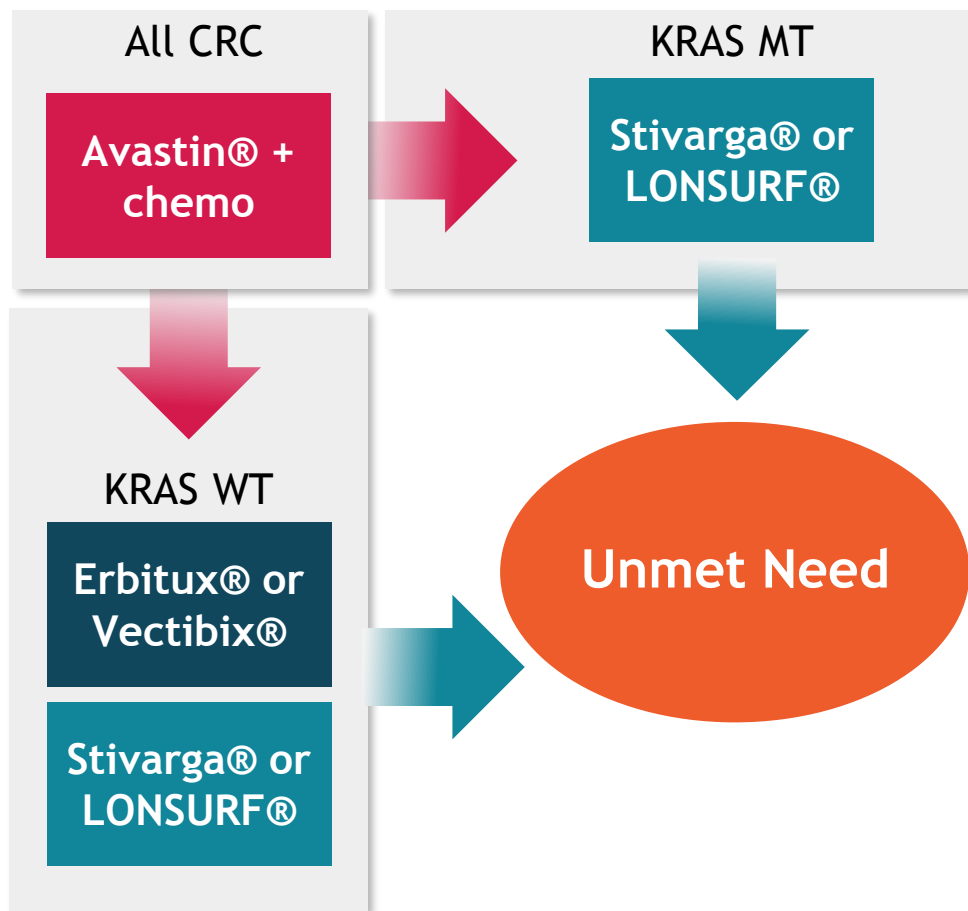


- High unmet need population
- ENCORE 601 melanoma results suggest potential to impact immune subtypes<sup>1</sup>
- Rapid read out

1. Dienstmann, R., *Nat Rev Cancer*, 2017 17, 79 - 92



# Need to improve therapy for MSS CRC patients



- ~23,000 3L (8,000 4L) treated patients are MSS<sup>1</sup>
- PD-(L)1 mono-Tx has shown minimal activity in MSS CRC<sup>2</sup>

1. Trial Trove, SEER data, DataMonitor, Kantar 2016 Treatment Architecture report; assumes 85% of CRC are MSS

2. Abstract LBA100 ASCO 2015, Abstract 479P ESMO 2016; Abstract 3502 ASCO 20161

# Additional ongoing Entinostat + PDL-1 combos: ENCORE 602 and 603

## ENCORE 602: TNBC

TECENTRIQ -  
entinostat  
dose  
determination

**Genentech**  
A Member of the Roche Group

TECENTRIQ® +  
entinostat  
(n=35)

TECENTRIQ® +  
placebo  
(n=35)

*Enrolling at 5mg;  
Target fully enrolled by YE17*

Phase 1b:  
*Open-label*

Phase 2:  
*Randomized, double-blind*

## ENCORE 603: Ovarian

Avelumab -  
entinostat  
dose  
determination

**MERCK** – **Pfizer**

BAVENCIO® +  
entinostat  
(n=80)

BAVENCIO® +  
placebo  
(n=40)

*Anticipate starting Phase 2  
enrollment 3Q17*

**Phase 2 ENDPOINTS:**

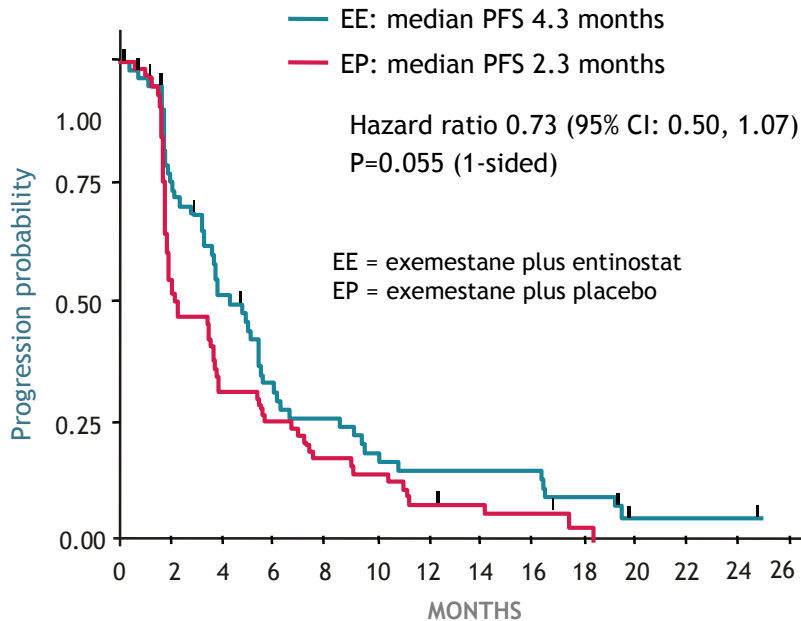
- PFS
- Overall response rate (ORR)
- Overall survival (OS)

# Company strategy



# Phase 2 trial resulted in breakthrough therapy designation for entinostat + Aromasin® in advanced HR+ breast cancer

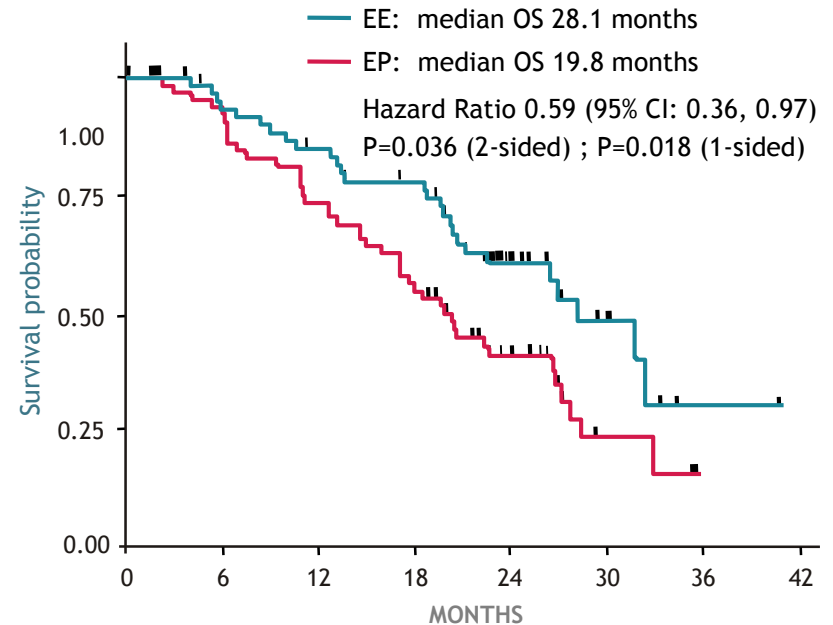
## Progression-free Survival



Placebo	31/66	13/33	4/20	5/16	2/11	4/9	0/5	1/4	1/3	1/1	0/0	0/0	0/0
Entinostat	15/64	14/45	11/29	3/17	4/14	2/10	0/8	0/8	3/8	2/5	0/1	0/1	0/1

(#events / #at risk)

## Overall Survival



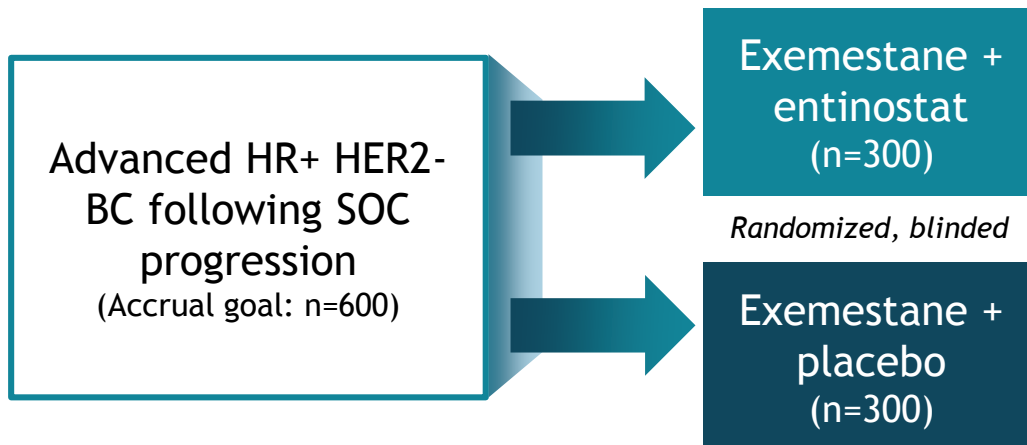
Placebo	4/66	13/60	12/47	8/35	5/18	1/3	0/0
Entinostat	4/64	5/55	4/49	9/43	3/21	2/9	0/1

(#events / #at risk)

Source: Yardley, Denise A., et al. *Journal of Clinical Oncology* 31.17 (2013): 2128-2135.

# E2112: Phase 3 registration trial in advanced HR+, HER2- breast cancer

## Exemestane +/- entinostat



Treatment cycle (28 days)

- Exemestane (25mg):  
PO, days 1-28
- Entinostat or placebo (5mg):  
PO, days: 1, 8, 15, 22

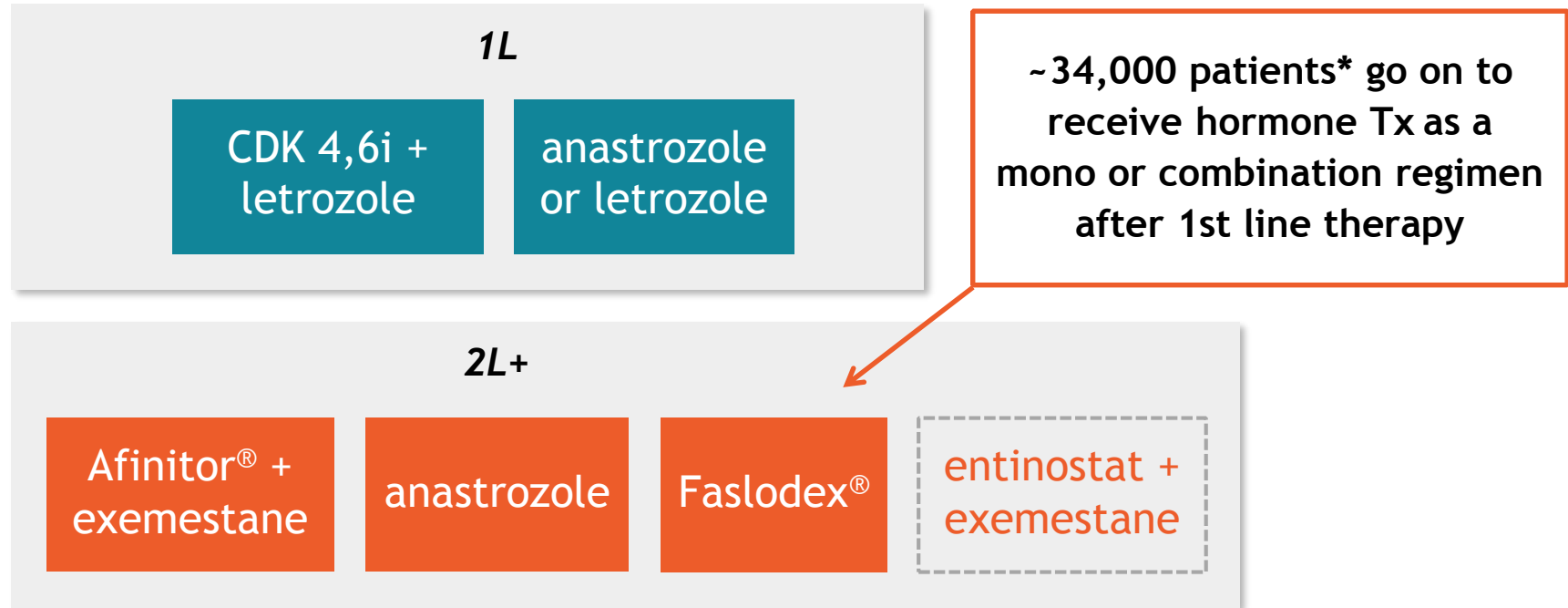
**GRANTED FDA  
BREAKTHROUGH THERAPY  
DESIGNATION**

- Two primary endpoints - PFS and OS
- Potential NDA filing 2018 based upon positive PFS data
- Per ECOG-ACRIN, enrollment completion & PFS data analysis anticipated 1H18

# Entinostat: Blockbuster potential as 2<sup>nd</sup>/3<sup>rd</sup> line therapy for HR+, HER2- metastatic breast cancer

*First novel MOA in HR+ BC with Phase 3 data since CDK4/6*

Leading treatment options - HR+, HER2- advanced breast cancer



Source: DataMonitor 2016 Breast cancer: HR+/HER2- Disease Coverage Report

# Company strategy

Entinostat

Breast  
Cancer

Immuno-  
oncology

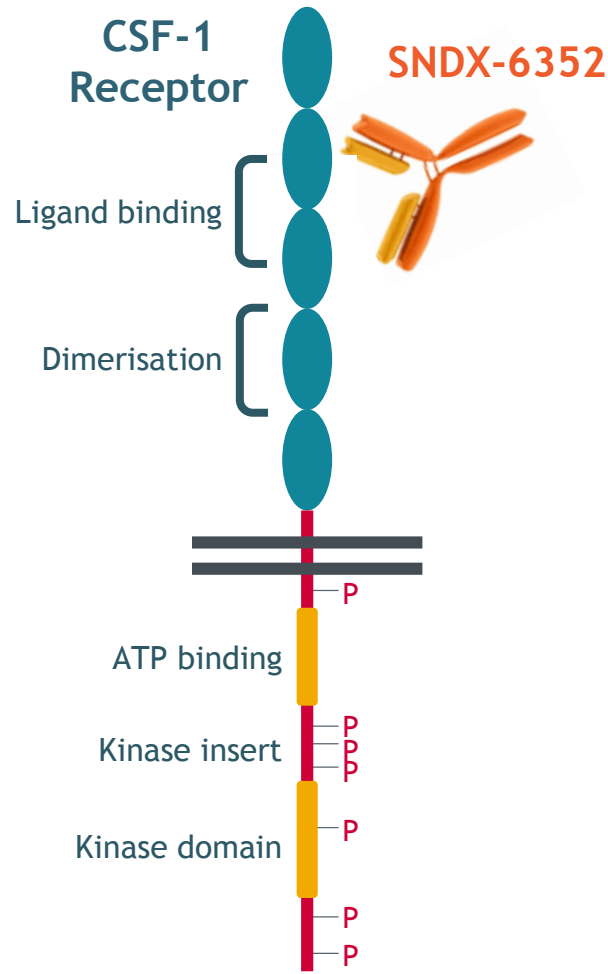
SNDX-6352

Immuno-  
oncology

New  
molecules

Financing & Staffing

# SNDX-6352: Anti-CSF-1R Ab targeting TAMs to increase tumor infiltrating lymphocytes



- High affinity, IgG4 ( $K_D = 4-8 \text{ pM}$ )
- Broad potential clinical utility
- Phase 1, single ascending dose (SAD) trial initiated 4Q16
  - First 3 cohorts completed dosing
- Initiate multiple ascending dose (MAD) trial (cancer patients) 3Q17

TAM - tumor associated macrophage; CSF-1R - colony stimulating factor -1 receptor

Source : Ordentlich, P. et al SITC 2016



# Financial highlights

<b>Ticker</b>	<b>SNDX (NASDAQ)</b>
<b>As of March 31, 2017</b>	
<b>Cash and short-term investments</b>	<b>\$92.8 million</b>
<b>Common shares O/S</b>	<b>18.2 million</b>
<b>May 2017 Offering</b>	
<b>Gross Proceeds</b>	<b>\$49.7 million</b>
<b>Shares issued</b>	<b>3.75 million</b>

# Expected key milestones through 2018

<b>ENTINOSTAT (Class 1 specific HDAC inhibitor)</b>	<b>2Q17</b>	<b>3Q17</b>	<b>4Q17</b>	<b>1H18</b>	<b>2H18</b>
ENCORE 601 - NSCLC (PD-1 naive) decision to re-open Phase 2	●				
ENCORE 601 - Present stage 1 melanoma (n=13) data at ASCO	●				
ENCORE 601 - FDA Type B meeting melanoma development path	●				
ENCORE 601 - Biomarker analysis presentation			●		
ENCORE 601 - Present stage 1 pre-Tx NSCLC (n=20) data			●		
ENCORE 601 - Present Phase 2 results for melanoma (n=34), pre-Tx NSCLC (n=56), CRC (stage 1 only, n=13)				●	
E2112 - Per ECOG, complete Phase 3 enrollment; release PFS				●	
ENCORE 602 - Present Phase 2 results (TNBC)					●

<b>SNDX-6352 (anti-CSF-1R mAB)</b>	<b>2Q17</b>	<b>3Q17</b>	<b>4Q17</b>	<b>1H18</b>	<b>2H18</b>
SAD trial data presentation (healthy volunteers)			●		
MAD trial data presentation (oncology patients)					●

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## Entinostat HR+ Breast Cancer

Combined with exemestane:

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## SNDX-6352

Anti-CSF-1R inhibitor

- Phase 1 ongoing
- Broad clinical potential

**Strong management team**

*CRC - colorectal cancer; NSCLC - non-small cell lung cancer; Mel - melanoma; TNBC - triple negative breast cancer; Ovar - ovarian cancer*

Thank you. Questions?

Syndax 