

# Realizing the Promise of Lung Cancer Screening

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- Realizing the Goal and Understanding the Impact
- Opportunistic event vs. Strategic initiative
- Screening and Eliminating Suffering and Death

# NCI's Goal

To eliminate  
the suffering  
and death  
due to cancer  
in the U.S. by  
2015

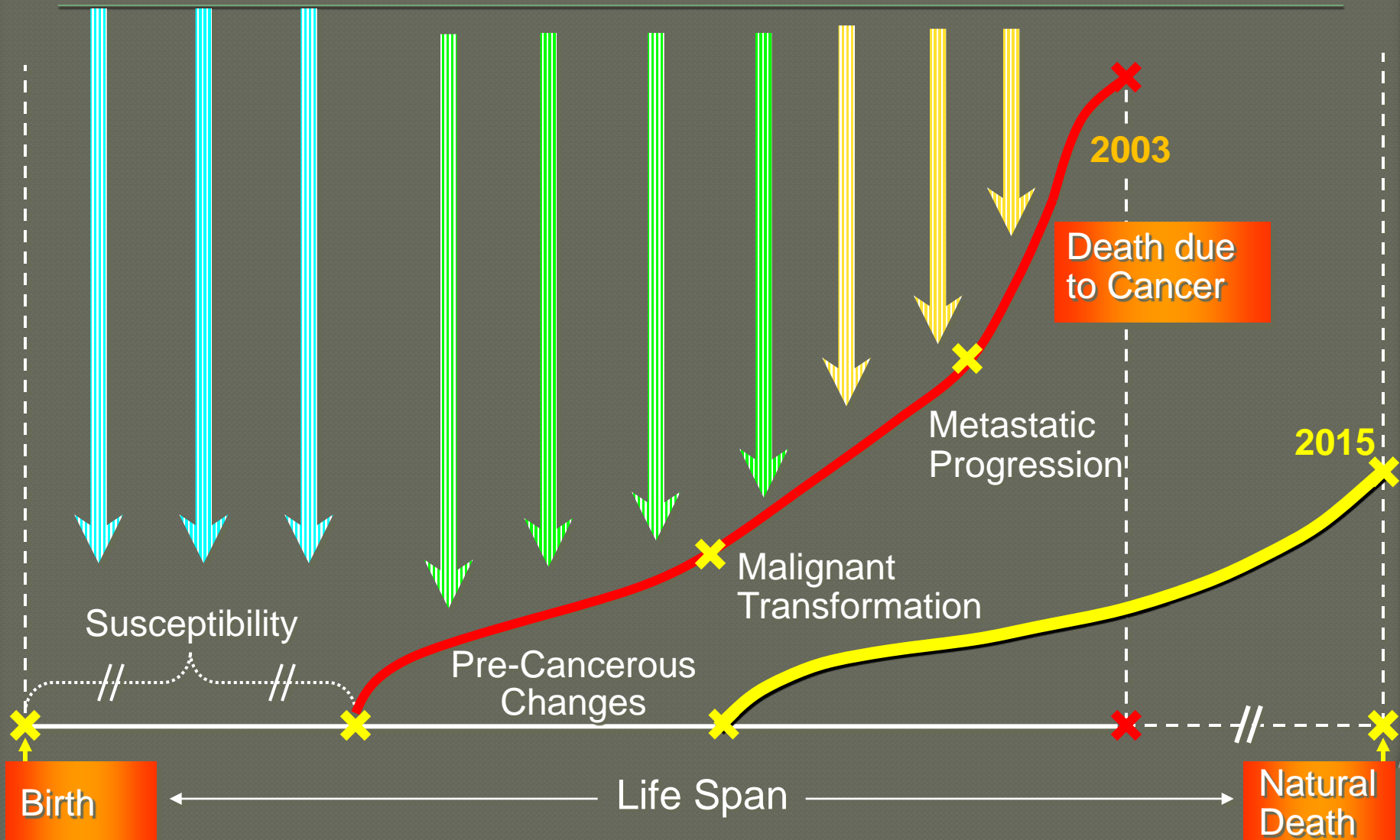


# The 2015 Goal: Eliminate the Suffering and Death Due to Cancer

- Cancer is a PROCESS
- The Process is controlled by specific genetic, molecular and cellular mechanisms
- These mechanisms are amenable to strategically targeted interventions.
- These interventions can prevent, detect, eliminate or control the outcome of the process

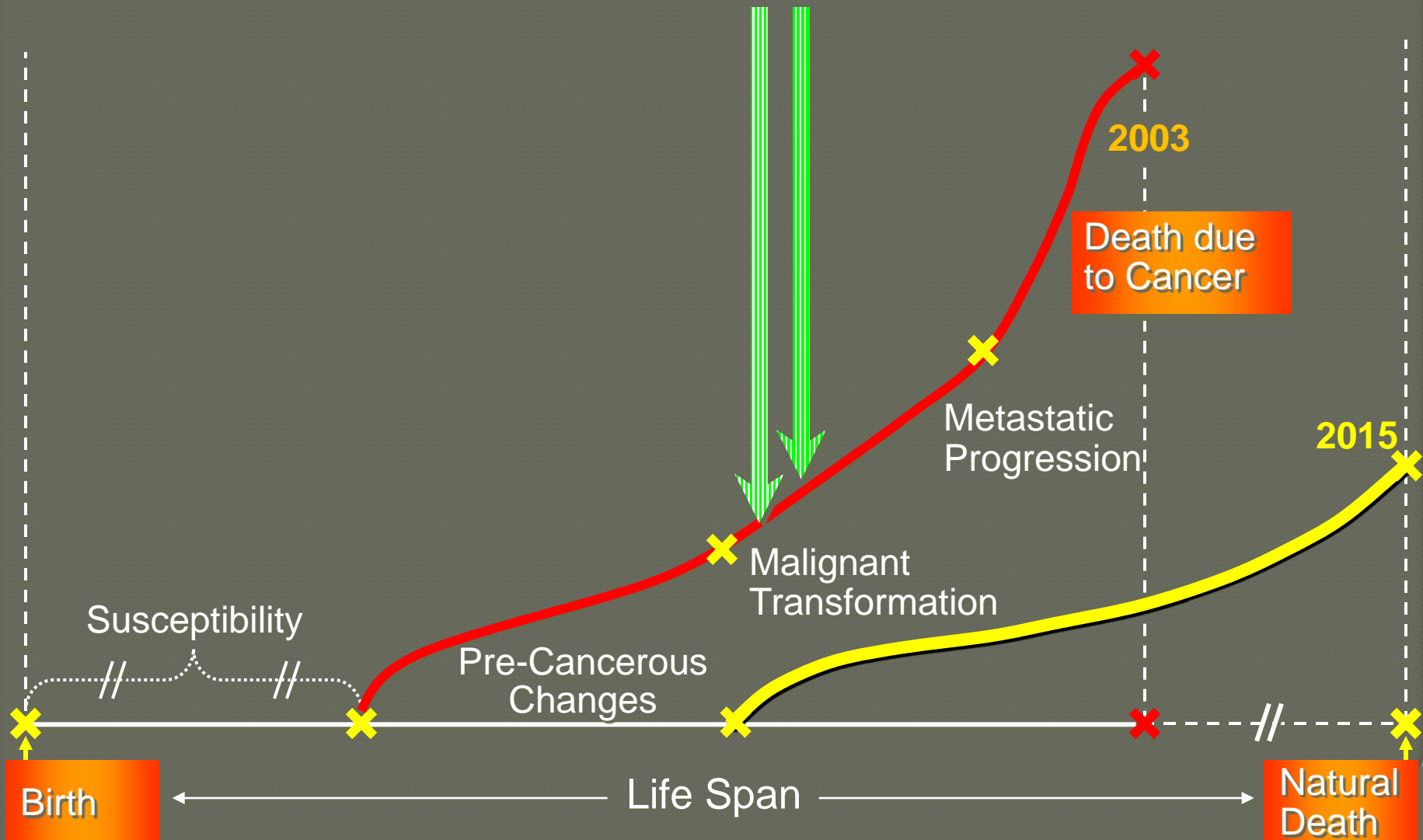
# Intervention in the Cancer Process

Prevent ↔ Detect ↔ Eliminate ↔ Modulate



# Intervention in Lung Cancer

Detect / Eliminate



# Lung Cancer Screening

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- ◉ Critical to the 2015 Goal
- ◉ No effective systemic therapy on the horizon
- ◉ Early detection a must strategy
- ◉ BUT
- ◉ Cancer is a systemic disease
- ◉ Lung cancer is not one disease



# Eliminate Suffering and Death Lung Cancer

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- ◉ Early detection provides early access
- ◉ Biology more important than Radiology and Surgery
- ◉ Understand the generation of phenotype from the earliest cancer stem cell progenitor to the emergence of virulence

# Eliminate Suffering and Death Lung Cancer

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- Establish Registry and Tissue Bank with standards and operational protocols (Quality and Context)
- Define a research agenda that involves multiple investigators and institutions with defined roles and responsibilities (Dream Teams)
- Open sharing of “big” data/ “cloud” interoperability
- Collaborate with industry on development



# Lung Cancer

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- ◉ Your Work Has Only Just Begun

but already millions of people thank you for  
the gift of hope for a better future

**WHERE NO ONE NEED SUFFER AND DIE**  
**FROM LUNG CANCER**