

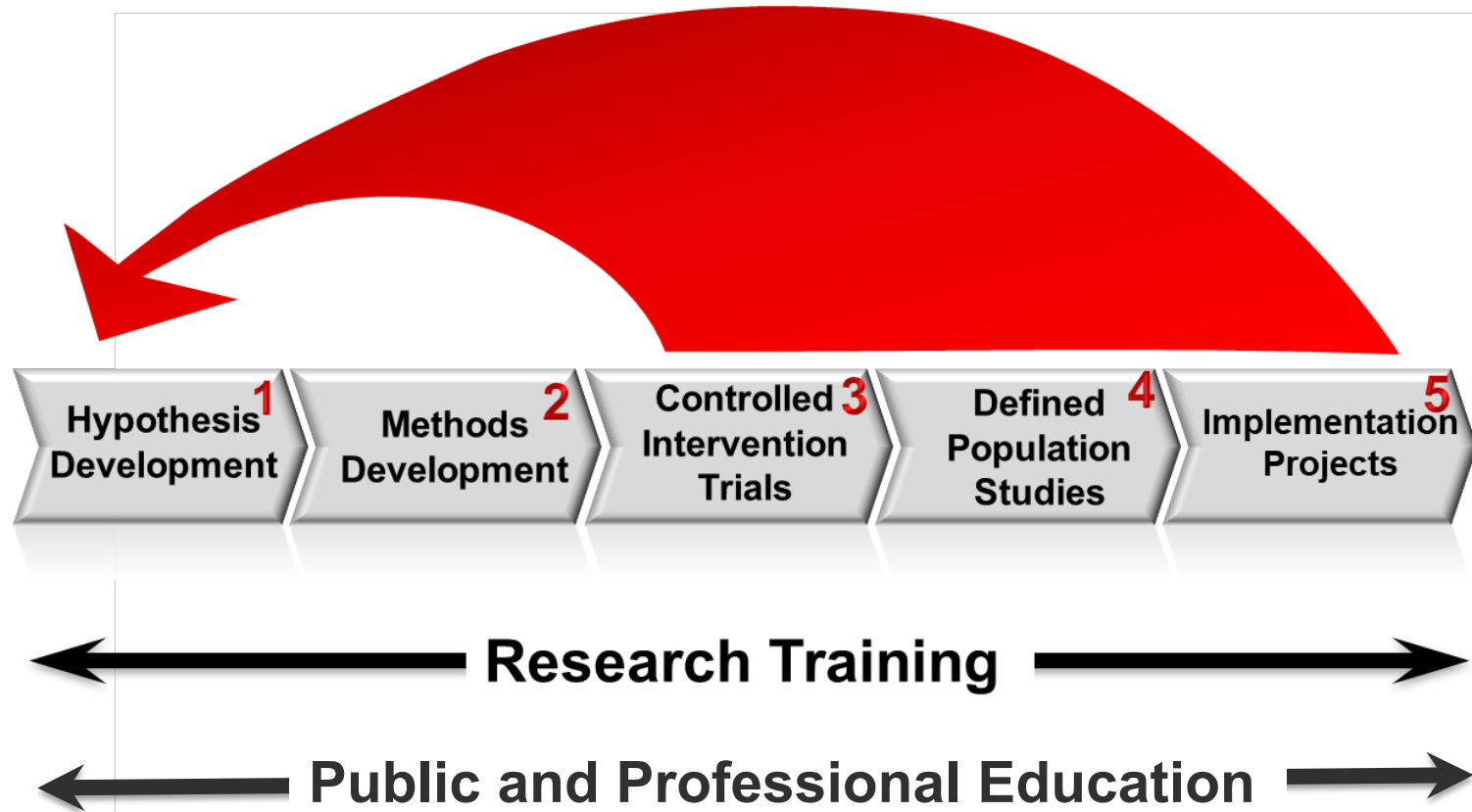
Vision for Cancer Prevention and Implementation

Clinical Trials & Translational Research Advisory Committee (CTAC)

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Division of Cancer Prevention

Phases of the Cancer Prevention Research Continuum



DCP Vision for Prevention

Vision: Reduction in incidence (and ultimate elimination) of invasive cancers that are potentially life-threatening

Implementation

- I. Preventive agent development
- II. Early detection & biomarker research
- III. Community Oncology Research Program (NCORP)
- IV. Training the next generation of prevention scientists

I. Preventive Agent Development

- **Immunoprevention**

- Frameshift vaccine via PREVENT program
- Immuno-bridging trial with HPV vaccine

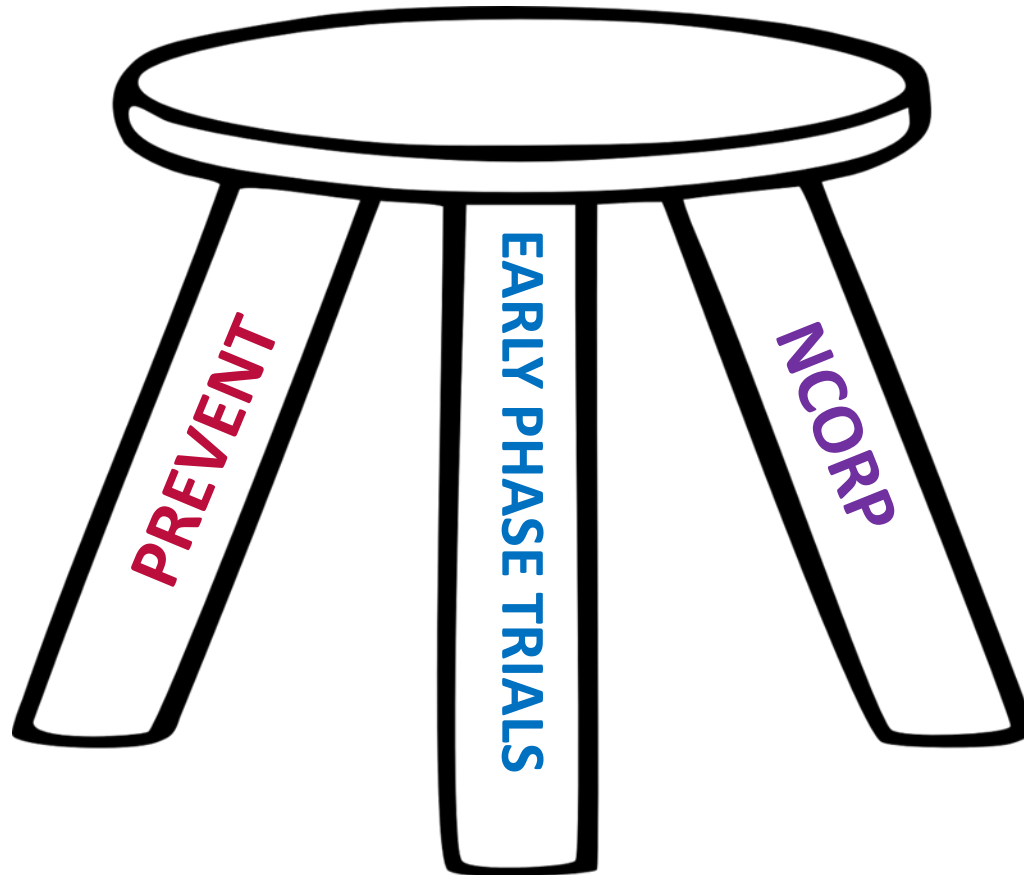
- **Chemoprevention with Multi-Use Agents**

- Long-term follow up in ASPREE trial (low-dose aspirin)
- Diabetes Prevention Program Outcomes Study (DPPOS)
- Finasteride for prostate cancer prevention (PCPT)

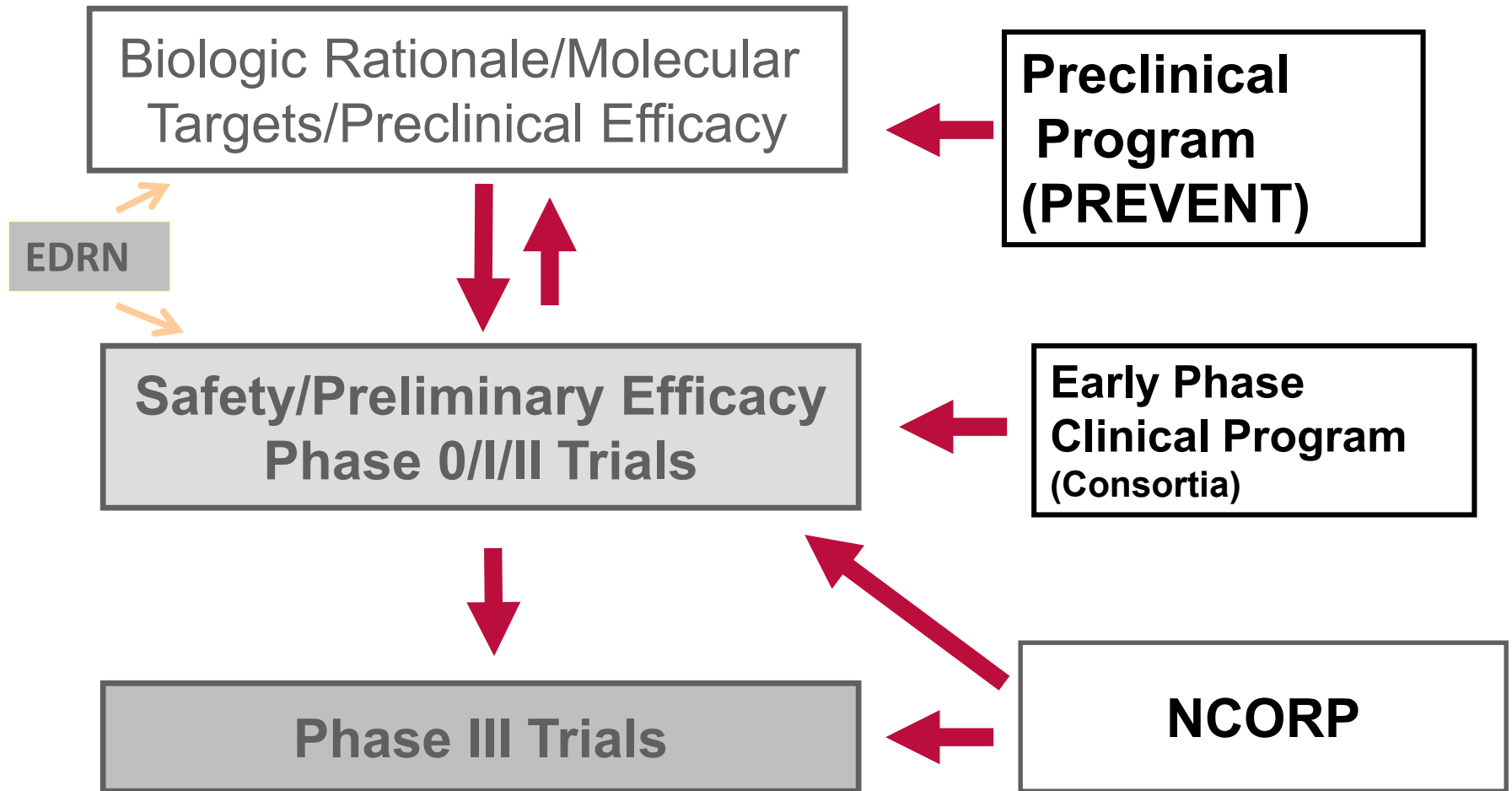
- **Novel Delivery to Reduce Toxicities**

- Topical drugs: tamoxifen, telapristone, bexarotene for breast cancer
- Aerosolized and inhaled drugs: bexarotene, iloprost for lung cancer

Three Critical Components of DCP Preventive Agent Development



DCP Drug Development Programs

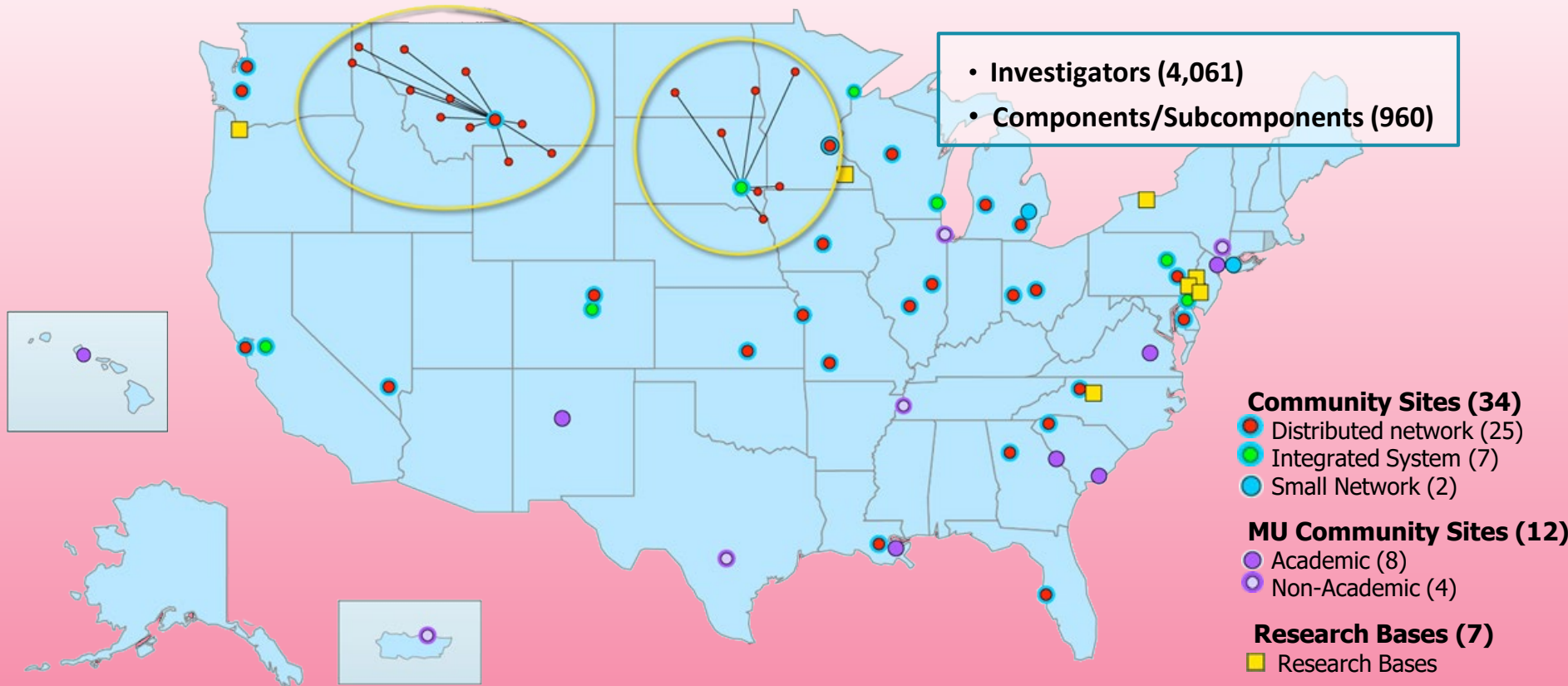


Critical Links:
Specimen biorepositories → PCA, PQ's

II. Early Detection and Biomarker Research

- **Early detection & mitigation of overdiagnosis at molecular, clinical, population levels**
 - Molecular & Cellular Characterization of Screen-Detected Lesions (MCL) Consortia
 - Pre-Cancer Atlas (PCA)
 - TMIST for breast cancer trial
 - Post-therapy surveillance
- **Predictive markers in high-risk cohorts**
 - New Onset Diabetes (NOD) cohort (pancreatic cancer risk)
 - Pancreatic Cancer Detection Consortia
 - Consortium on Translational Research in Early Detection of Liver Cancer

III. NCI Community Oncology Research Program (NCORP)



Updated: September 2018

IV. Training the Next Generation of Prevention Scientists

- **Cancer Prevention Fellowship Program**
 - Multidisciplinary postdoctoral program that trains future leaders in the field of cancer prevention and control
 - Opportunities for cutting-edge research in the basic, quantitative, social and behavioral sciences, and in clinical cancer prevention

NCI Cancer Prevention Fellowship Program: History and Structure

- Celebrated its 30th anniversary in 2017
- Multidisciplinary training for post-doctoral fellows in basic, quantitative, social and behavioral sciences, clinical cancer prevention
- 37 current fellows work in several NCI divisions and at the Food and Drug Administration
- Two summer courses:
 - Principles and Practice of Cancer Prevention Control Course
 - Molecular Prevention Course



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