# Expanding Access to ECHO Cohort Data and Biospecimens through X01

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# **Concept Clearance**

**Concept**: Issue PAR for access to ECHO data and biospecimen resources

**Title**: Expanding Access to ECHO Cohort Data and Biospecimens through X01

**Objective/Purpose**: To enhance ECHO's impact and value while fostering collaboration and equity of opportunity through expanded access to ECHO data and biospecimens

**Funds Available & Number of Awards**: The X01 requires no funding from ECHO. We anticipate up to 20 awards per year

Award Project Period: 1-3 years

**Council Action**: Council motion and vote to provide concept clearance to issue the PAR



# **Presentation Outline**

- Opportunity to use our ECHO Cohort resource
  - ECHO Cohort as national resource
  - Opportunity: A rapidly expanding resource
- Today's Concept: PAR for resource access via X01
  - Facilitating resource access through X01
  - Plans for X01 applications
- How the PAR fits in ECHO's approach to ancillary studies
  - ECHO definition of ancillary studies
  - Overall approach to ECHO ancillary studies
    - Simultaneous applications for funding and (this PAR) resource access
- Requested Council action





# **Overview of ECHO Resource Access**



### **ECHO Program**

- Who: ECHO investigators
- What: Contribute and access identifiable data and biospecimens
- Where: ECHO Data Platforms + ECHO Cohort Biorepository

UG3/UH3



#### **Ancillary Studies**

- Who: ECHO and non-ECHO investigators
- What: Can access identifiable data and biospecimens
- Where: ECHO Data
  Platforms + ECHO Cohort
  Biorepository

X01



#### **NOFOs**

- Who: Non-ECHO pre- & post doctoral trainees
- What: Can access de-identified ECHO data
- Where: NICHD Data and Specimen Hub (DASH)

R36/F32



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# Opportunity to Use Our ECHO Cohort Resource



# **ECHO Program**

**Mission To enhance** the health of children for generations to come

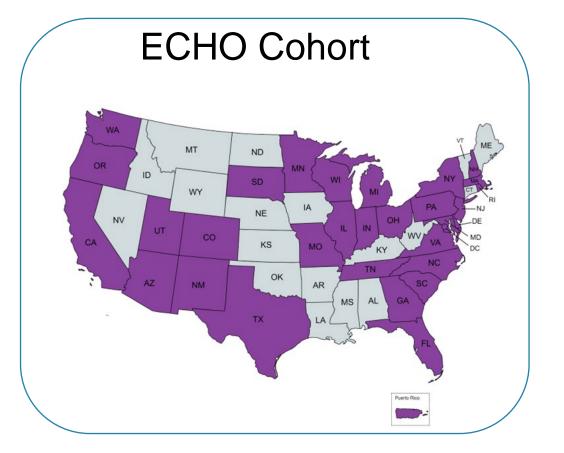
5 Key Areas with High Public Health Impact



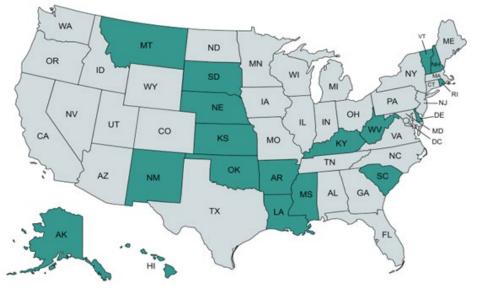


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# **Observational & Intervention Research**



### ECHO IDeA States Pediatric Clinical Trials Network



Research Sites in 42 states, DC, PR 180+ health research institutions 1200+ researchers





### ECHO Cohort as a National Resource To Date

# By making ECHO Cohort data and biospecimens available to the broader scientific community

Good use so far...



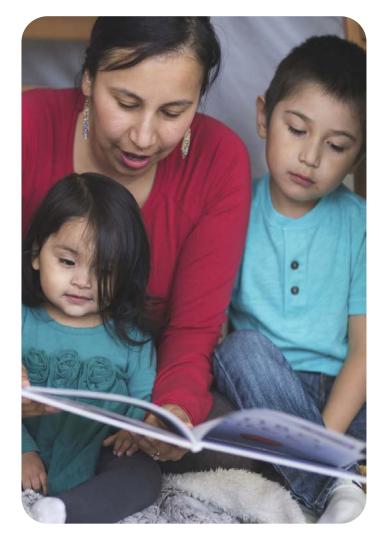
### ECHO Cohort as a National Resource Future

# By making ECHO Cohort data and biospecimens available to the broader scientific community

Expanding access to identifiable data and biospecimens via ancillary studies



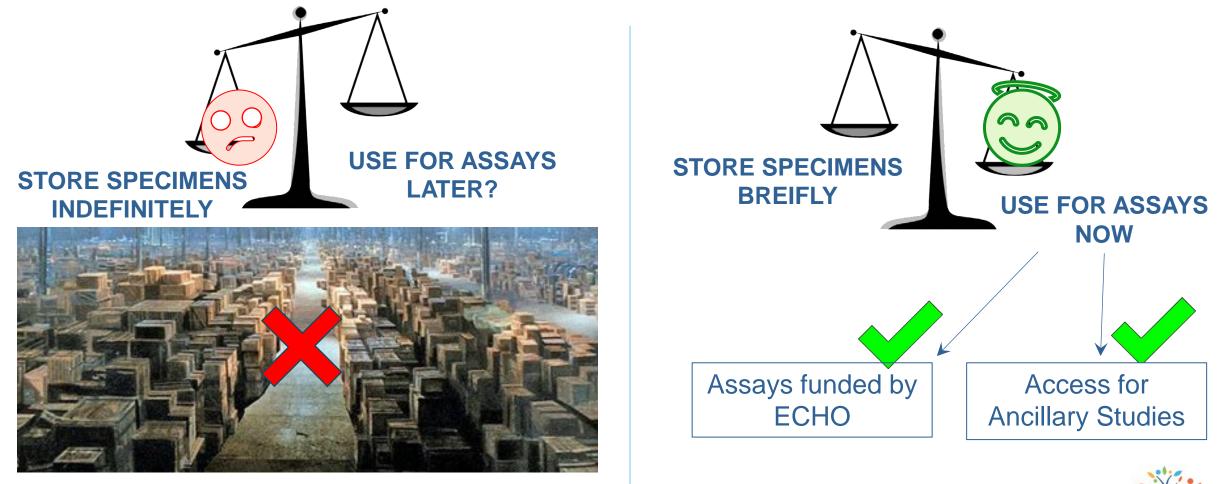
# **ECHO Cohort Resource After Eight Years**



- September 2016 August 2023
  - Harmonized data from 107,000+ participants from ~70 pre-existing, ongoing longitudinal maternal-child studies
    - ~65,000 children
    - Extant assay data
    - >100,000 biospecimens in biorepository
- September 2023 May 2030
  - Following up >30,000 kids
  - Recruiting >30,000 new pregnancies
    - Postpartum = preconception
      - Including partners when possible
  - Rapidly expanding data platform and biorepository
  - New biospecimen assays



### Exceptional Opportunity with Biospecimens Long-term storage vs. Prompt use



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## Today's Concept: PAR for Resources Access via X01



# About X01

- ECHO proposes to issue a PAR for an X01, an NIH resource access mechanism that would allow...
  - Investigators from in and outside of ECHO to ask important research questions that require
    - Personally identifiable information on ECHO Data Platform, or
    - Assays of biospecimens in ECHO Biorepository
  - ECHO Program Office to
    - Oversee project, resource access
    - Protect interests of ECHO Sites, Cores, Centers
    - Protect interests of ancillary study investigators
    - Monitor investigator development in future years
- Other institutes, centers, offices, agencies to supply funding



# Plans for PAR to Support X01 Applications

- Standard due dates: February, May, October
- Review: Federal review panel

- Scientific & technical merit





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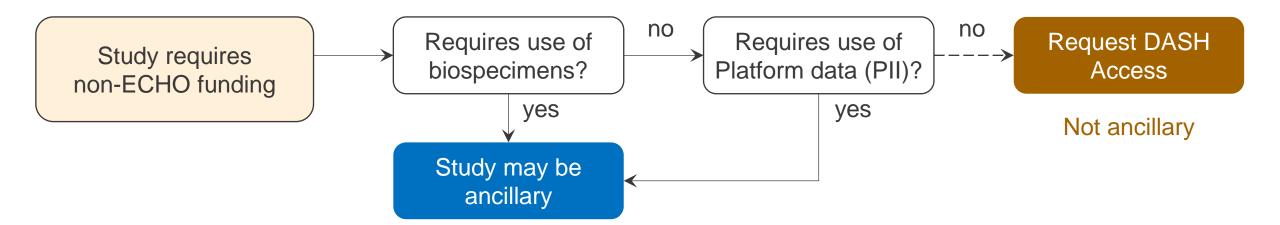
# How the PAR Fits in ECHO's Approach to Ancillary Studies



# ECHO's Definition of Ancillary Study

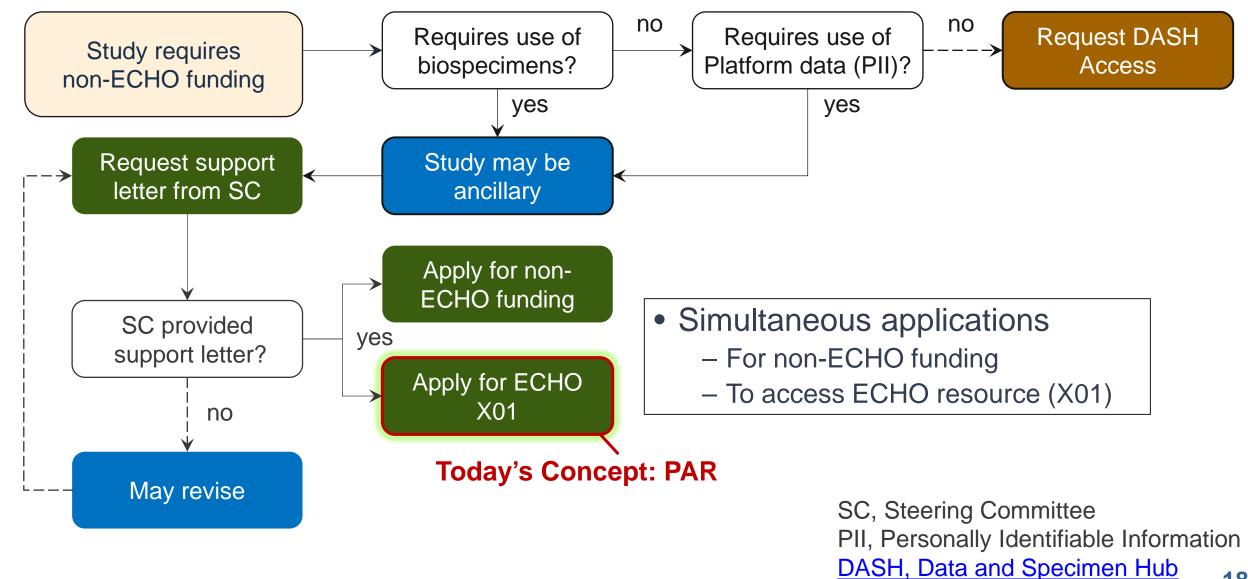
A study that derives funding from a non-ECHO source and uses non-publicly available data or biospecimens

## **Overall Approach to ECHO Ancillary Studies (1)**

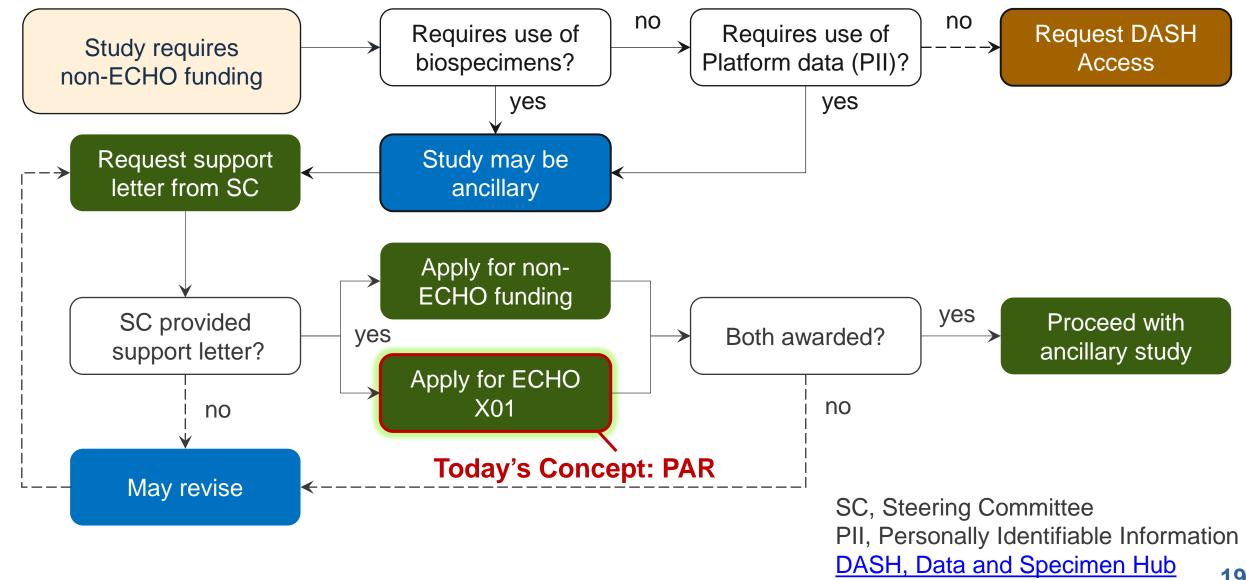


SC, Steering Committee PII, Personally Identifiable Information DASH, Data and Specimen Hub

## **Overall Approach to ECHO Ancillary Studies (2)**



### **Overall Approach to ECHO Ancillary Studies (3)**



# Summary

### • ECHO Cohort

- Has already made de-identifiable data available to the broad scientific community
- Intends to follow suit with identifiable data and biospecimens, via ancillary studies process
- Expects to use X01 mechanism to oversee conduct of ancillary studies
- Requests Council to approve PAR concept to request X01 applications

# **Requested Council Action**

Motion and vote to provide concept clearance for ECHO to issue the PAR