Progressing from MSP to DRK-12

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Nurtures

NURTURES I

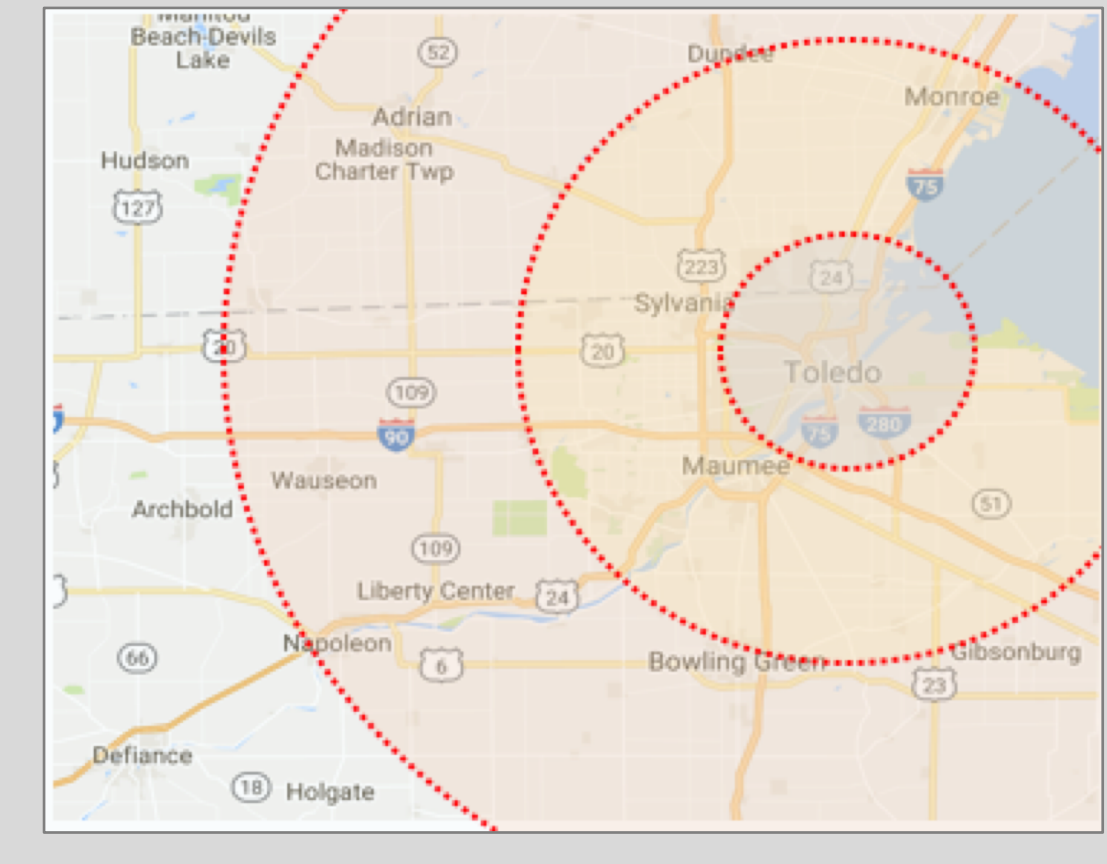Networking Urban Resources with Teachers & University to enRich Early Childhood Science

Focus:
- High needs *Urban* district

NURTURES II

Focus:
- High needs *Mixed* districts
- NW Ohio & SE Michigan

RATIONALE

- **NURTURES I:** 5-year focus on PreK-3 in **urban** district with positive effects.

- **NURTURES II:** Shift focus to PreK-3 **mixed schools** to test interventions in different setting for efficacy and scale up feasibility.

Participants

Exposure

Teacher Professional Development

Family Packs

Community Events

Teacher Professional Development

Professional Development + Family Packs + Engagement Event Boxes

- **NURTURES I:** Participants received all elements of intervention.

- **NURTURES II:** Participants grouped in *PD only* and *PD+Family* groups to support research on the impacts of specific intervention components.
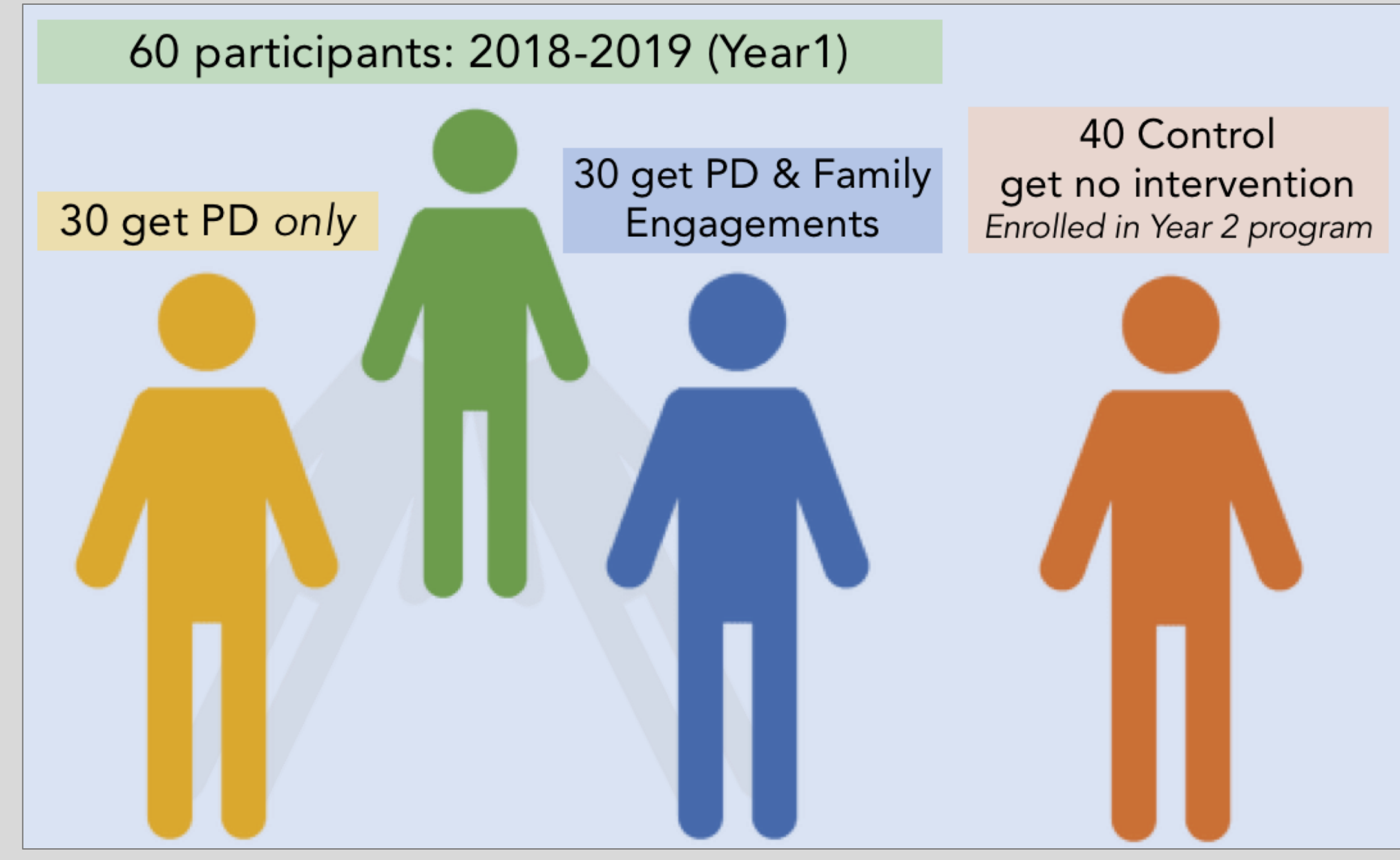
Measuring Impacts

NURTURES Effect on Students' Outcomes in 2015-2016

As compared to students who never had a NURTURES teacher, **having a NURTURES teacher in a student's academic life** prior to or during the 2015-2016 school year **was associated with** net gains in spring scores of:
- 8.6 points to STAR Early Literacy
- 17.0 points to STAR Mathematics and
- 41.4 points to STAR Reading (Effect size 0.25)

Assessment	Grades	B	SE B	T-ratio	Df	p
STAR Early Literacy	K-2	8.59	3.56	2.41	41	0.020
STAR Math	2-4	16.99	2.56	6.63	40	<0.001
STAR Reading	1-4	41.38	4.17	9.93	40	<0.001

Assessment Instruments: STAR Renaissance Data

60 participants: 2018-2019 (Year1)

30 get PD *only*

30 get PD & Family Engagements

40 Control get no intervention
Enrolled in Year 2 program

Assessment Instruments: TerraNova, ELS/KELS, and Lens on Science

- **NURTURES I:** Quasi-experimental design. No science achievement data.

- **NURTURES II:** Randomized control group design. Added instruments to measure **science**, math, and reading achievement for PreK-3.