

CS as a Graduation Requirement: A Catalyst for Systemic Change

Lucia Dettori: *DePaul*

Ron Greenberg: *Loyola*

Steven McGee: *The Learning Partnership*

Andy Rasmussen: *Chicago Public Schools*

Dale Reed: *UIC*

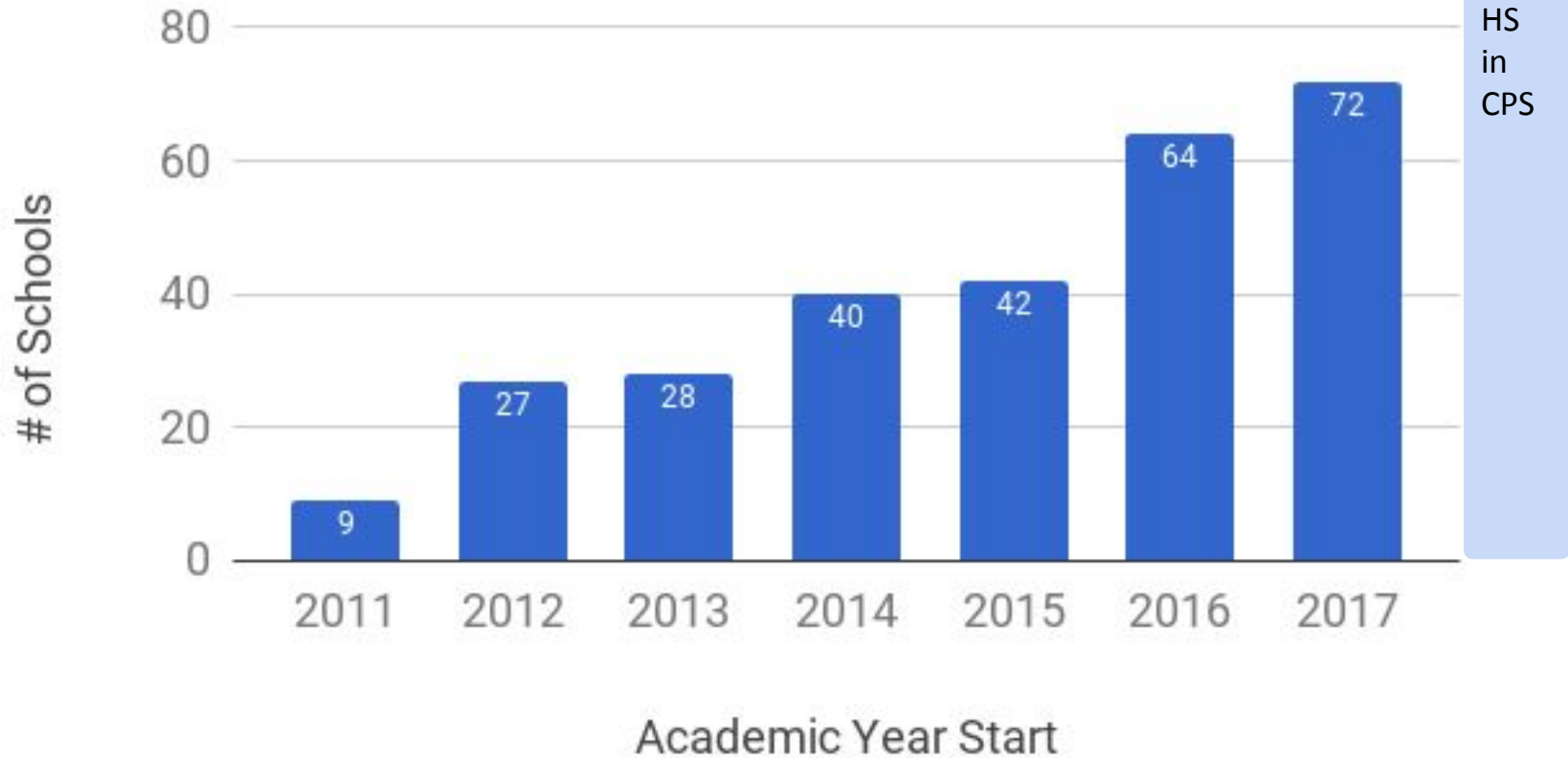
Brenda Wilkerson: *CPS / AnitaB.org*

Don Yanek: *Chicago Public Schools*

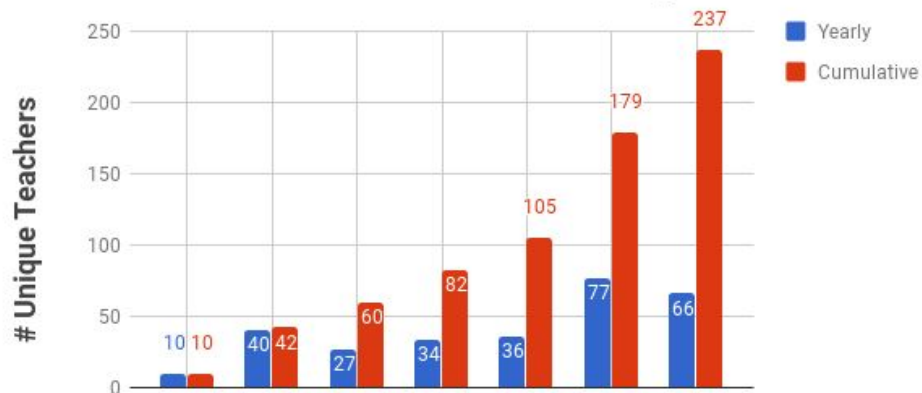
Overview:

- Impact in Chicago
- Brief history
- Group discussions on:
 1. What are key steps to build an RPP?
 2. How to leverage a pilot for institutional change?
 3. What problems follow success?
 4. What are pressing needs for teachers?
 5. What are district administrator concerns?

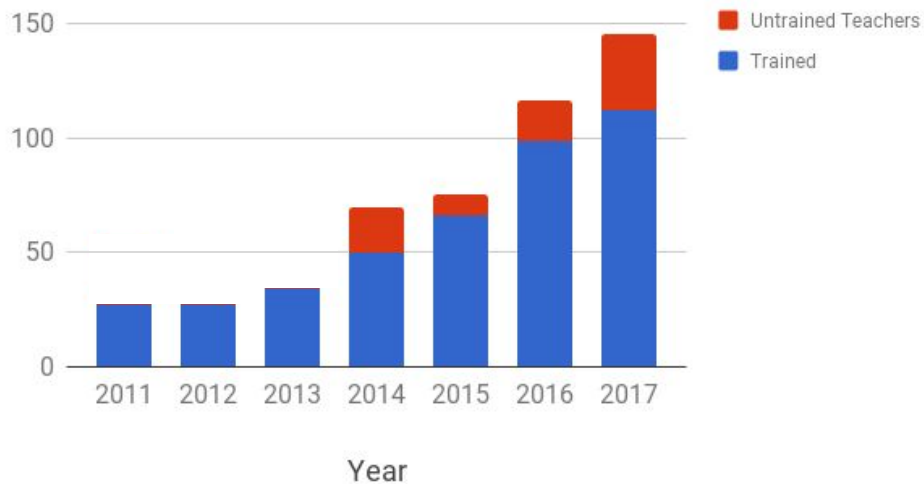
Number of CPS Regular High Schools offering ECS



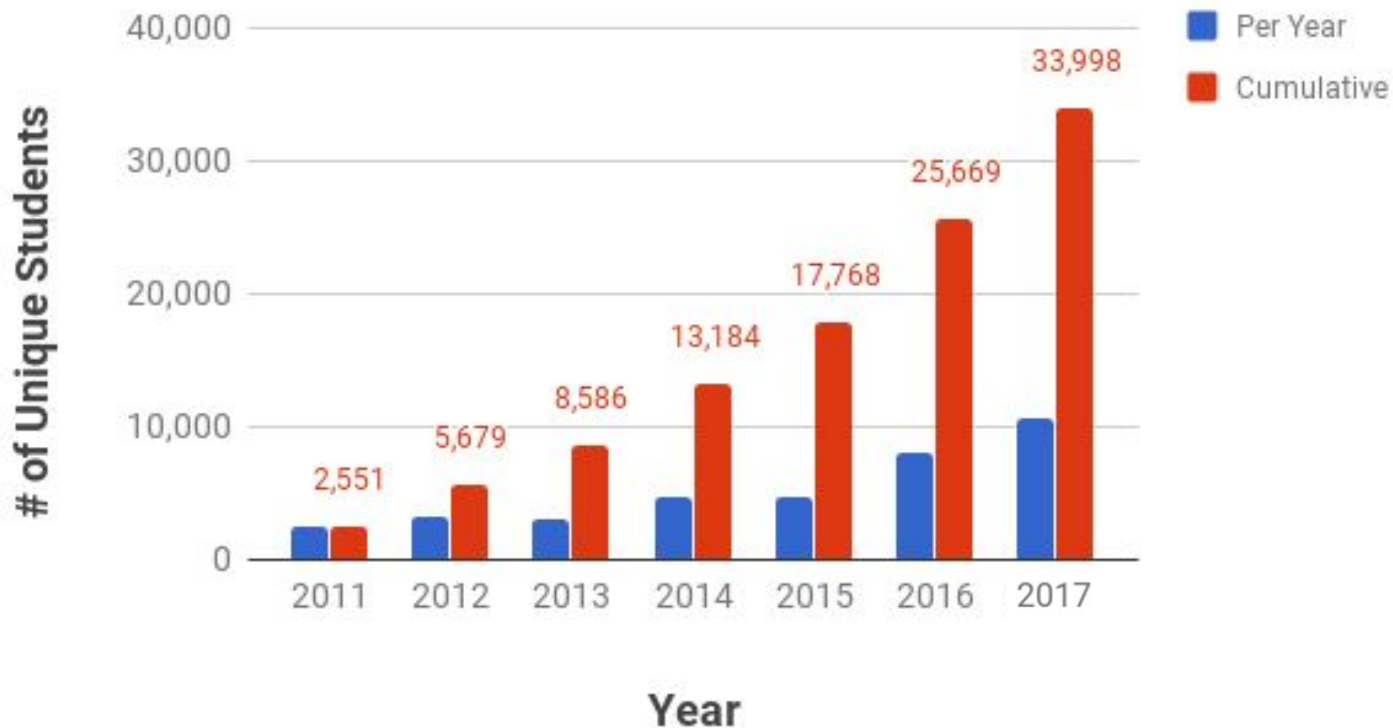
of Teachers That Have Gone Through ECS PD

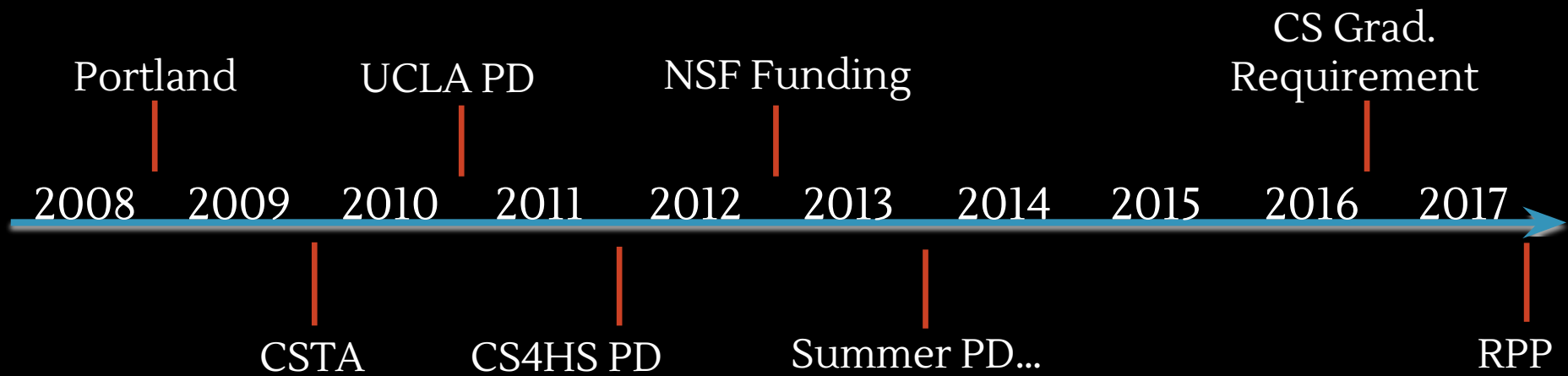


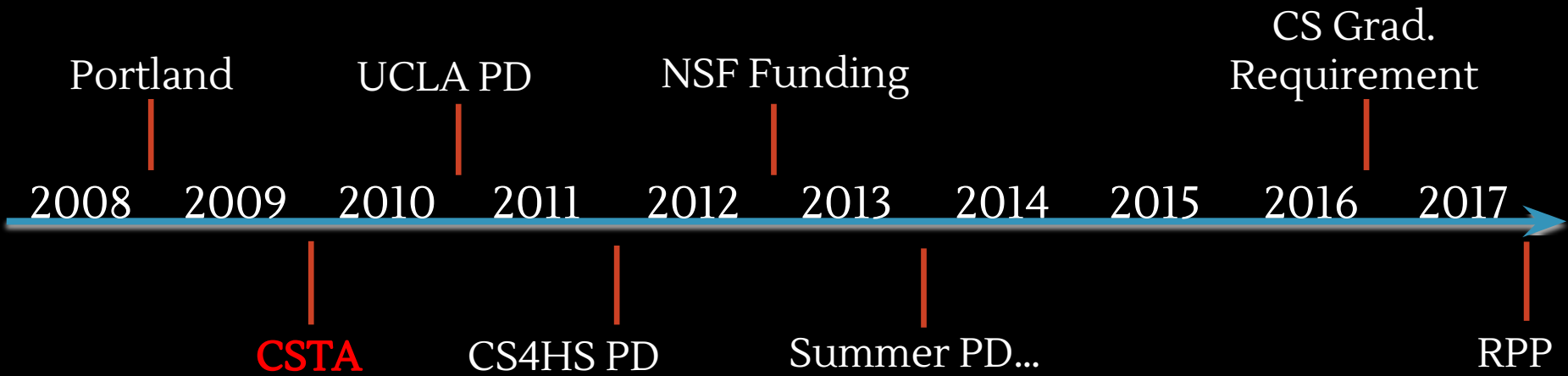
of Chicago ECS Teachers

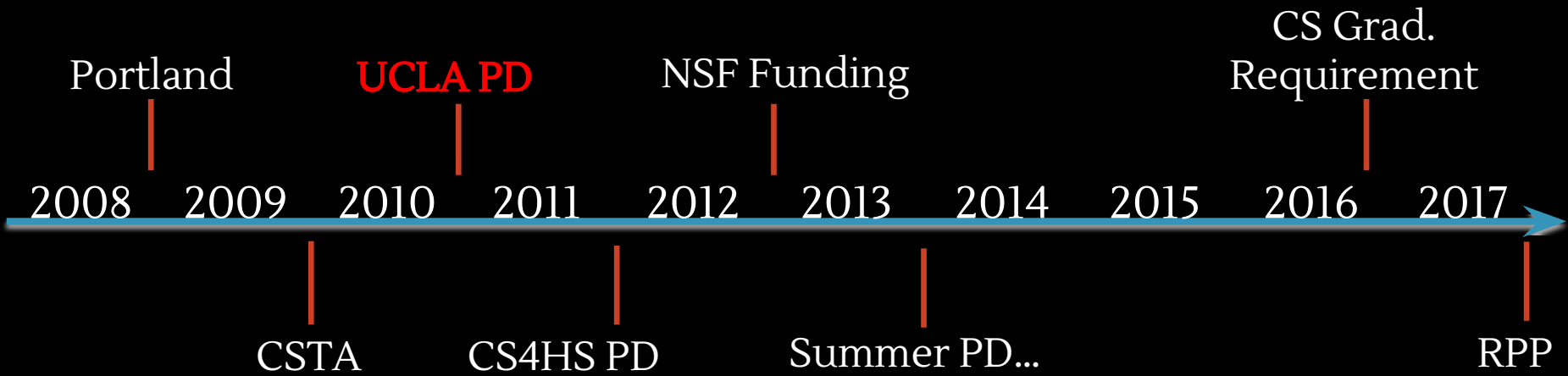


Number of ECS Students

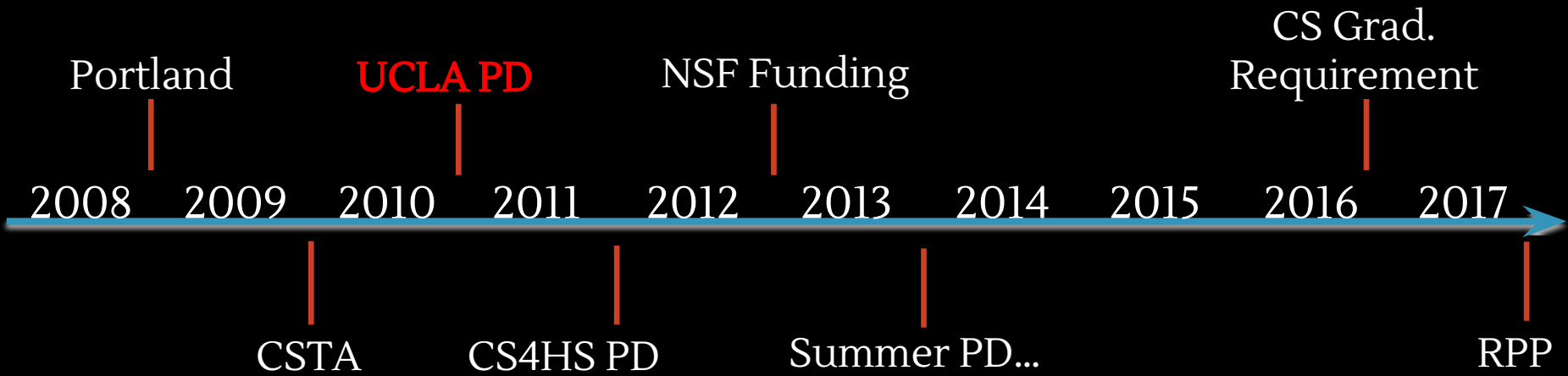




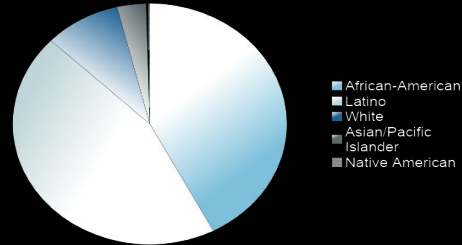


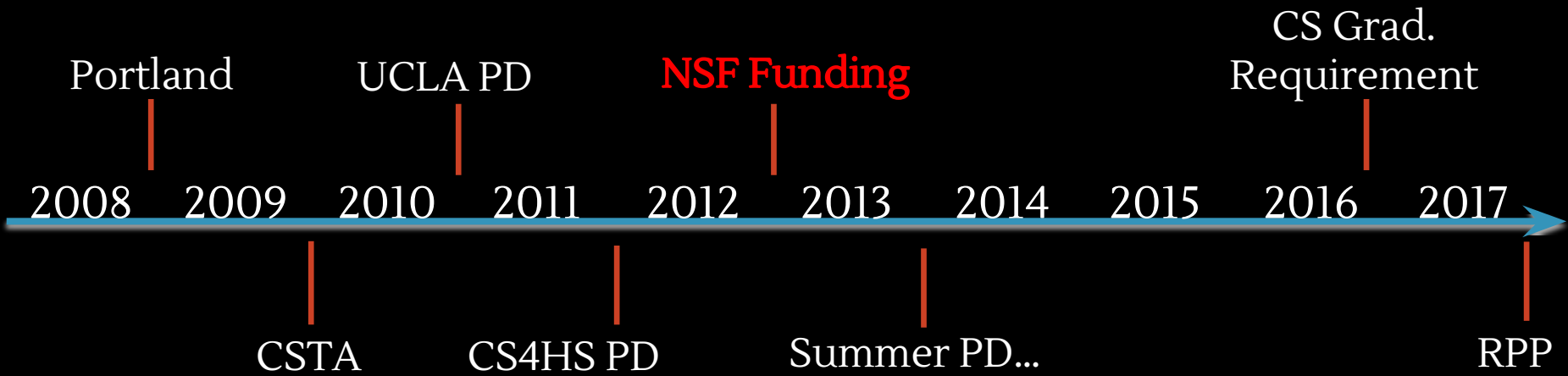


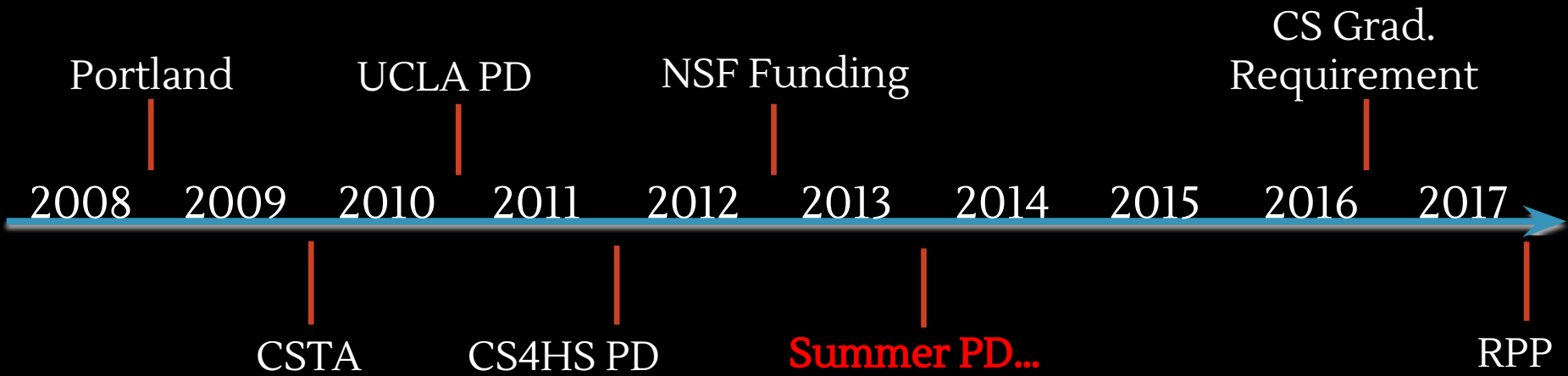
CaféCS: Chicago Alliance for Equity in Computer Science

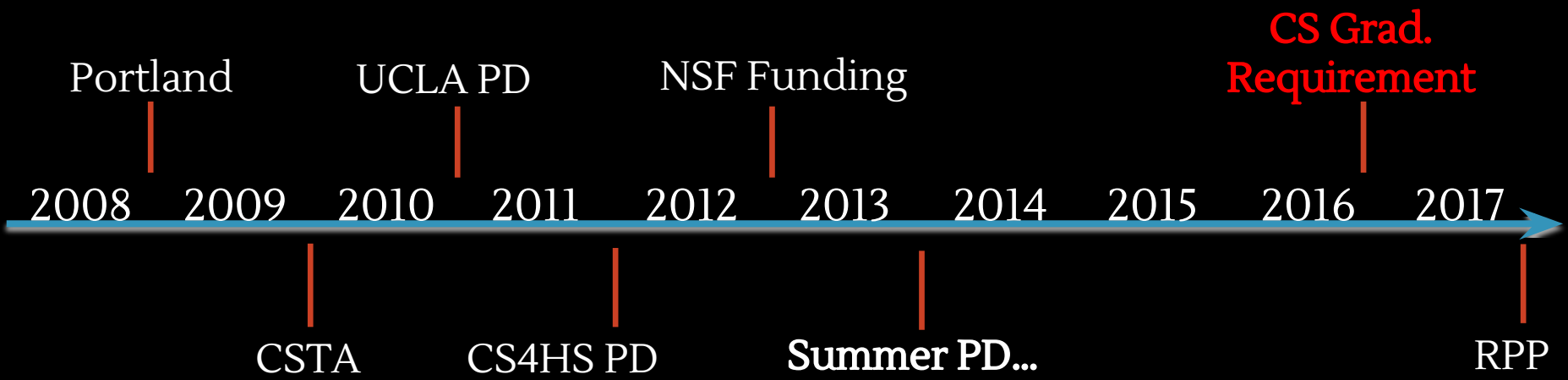


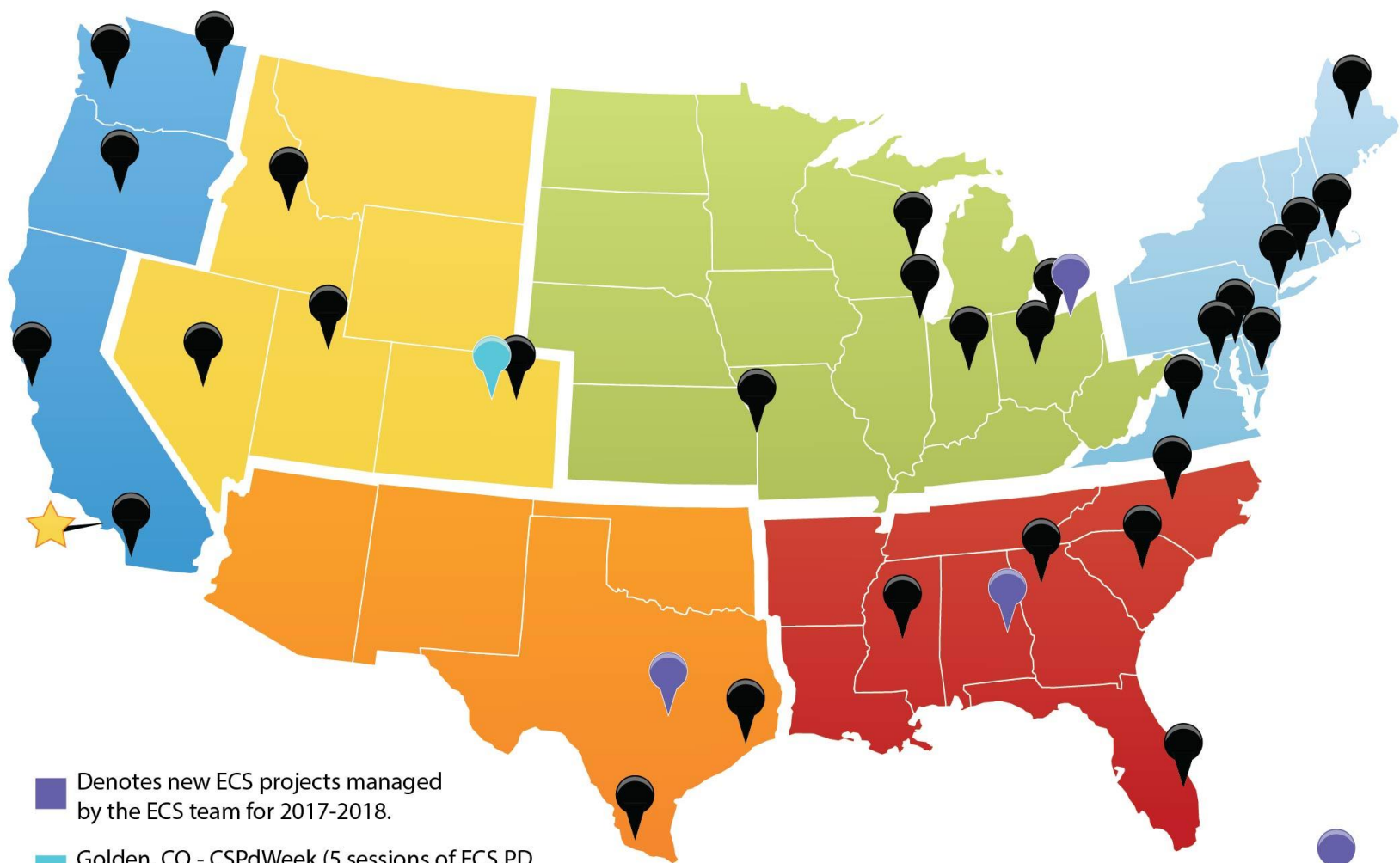
CPS: 106 high schools, 113,873 students.
87% Low income, 24.6 pupils/teacher











■ Denotes new ECS projects managed by the ECS team for 2017-2018.

■ Golden, CO - CSPdWeek (5 sessions of ECS PD with teachers from all over the country)



Puerto Rico

Group Discussion

1. Please get in groups of 4-6
2. Choose time-keeper, recorder & reporter
Shift this clockwise each time
3. Write main thoughts on your group's poster.
Choose *one* thought to report out. Don't repeat.

1. What are key steps to building a good researcher/practitioner partnership involving teachers, university partners, and district leaders?

1. Steps...
2. How can a pilot (including curriculum, PD, and/or coaching) be leveraged for institutional change?

1. Steps...
2. Leverage Pilot... Relative importance
3. What are the problems you might expect, once the graduation requirement has been adopted?

1. Steps...
2. Leverage Pilot... Importance of PD, etc.
3. Problems
4. From teachers' perspectives, what are the most pressing needs in implementing CS across a school system?

1. Steps...
2. Leverage Pilot... Importance of PD, etc.
3. Problems
4. Pressing needs for teachers
5. What are primary concerns from the school district administrator point of view?

Lessons Learned:

1. Work both bottom-up (teachers) and top-down (district champion)
2. Be patient. It takes time to change instructional and institutional culture.
For lasting results don't try to grow faster than relationships of trust.
3. Build excess teacher capacity.
Coaching and ongoing supports are necessary.

