



A Brief History of Immunization Information Systems in the US and California

California Immunization Coalition (CIC)
2019 Summit
Riverside, CA
April 9, 2019



Definition of IIS

- “Immunization information systems (IIS) are confidential, population-based, computerized databases that record all immunization doses administered by participating providers to persons residing within a given geopolitical area.
 - At the *point of clinical care*, an IIS can provide consolidated immunization histories for use by a vaccination provider in determining appropriate client vaccinations.
 - At the *population level*, an IIS provides aggregate data on vaccinations for use in surveillance and program operations, and in guiding public health action with the goals of improving vaccination rates and reducing vaccine-preventable disease.”

<https://www.cdc.gov/vaccines/programs/iis/about.html>



Origins of IIS

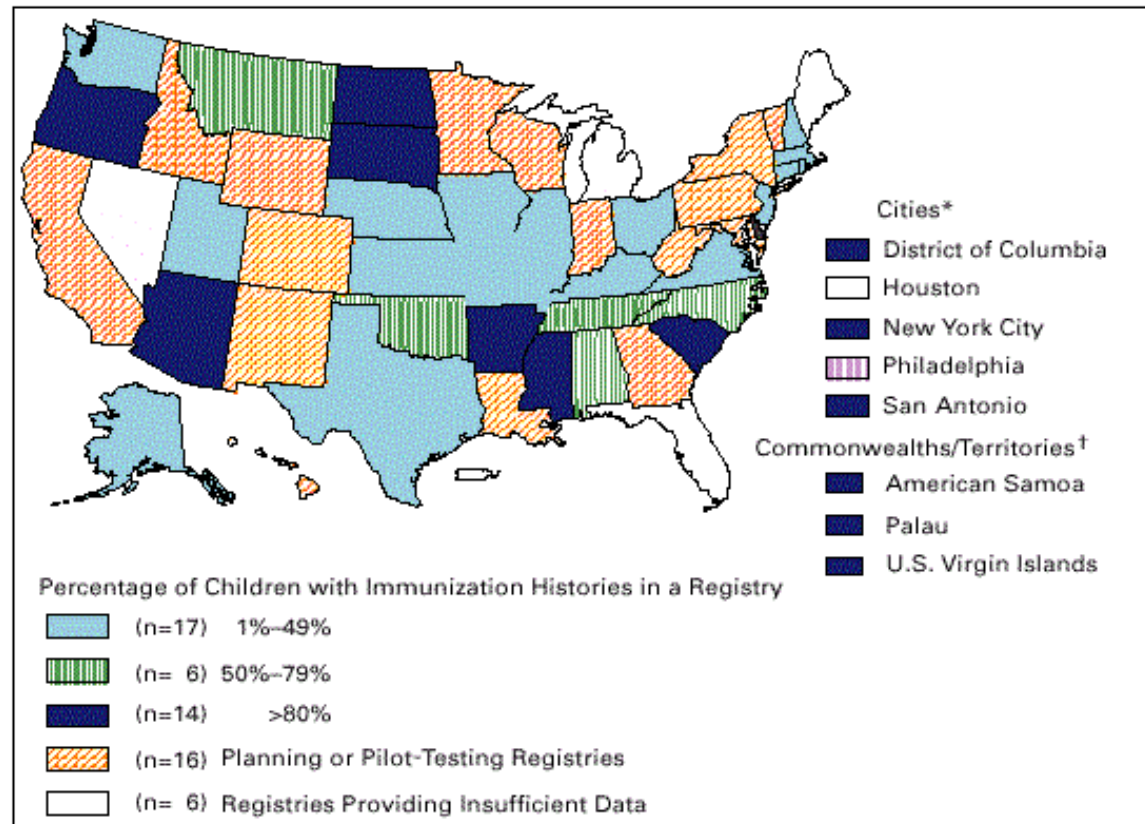
- Measles out break of 1989-91: 27,600 cases
- *All Kids Count*: Robert Wood Johnson-funded
 - 1992: 23 planning grants
 - 1993-97: 24 implementation grants, mostly at community/local level
 - “Let a thousand flowers bloom”
- More challenging than originally expected
- 1999: Major vendor went bankrupt

https://repository.immregistries.org/files/resources/5c19b578dc69e/iis_history_spotlight-_origin_story.pdf

Progress: 1999

States, cities, and commonwealths/territories with children aged 0-5 years with at least two vaccine doses recorded in an immunization registry

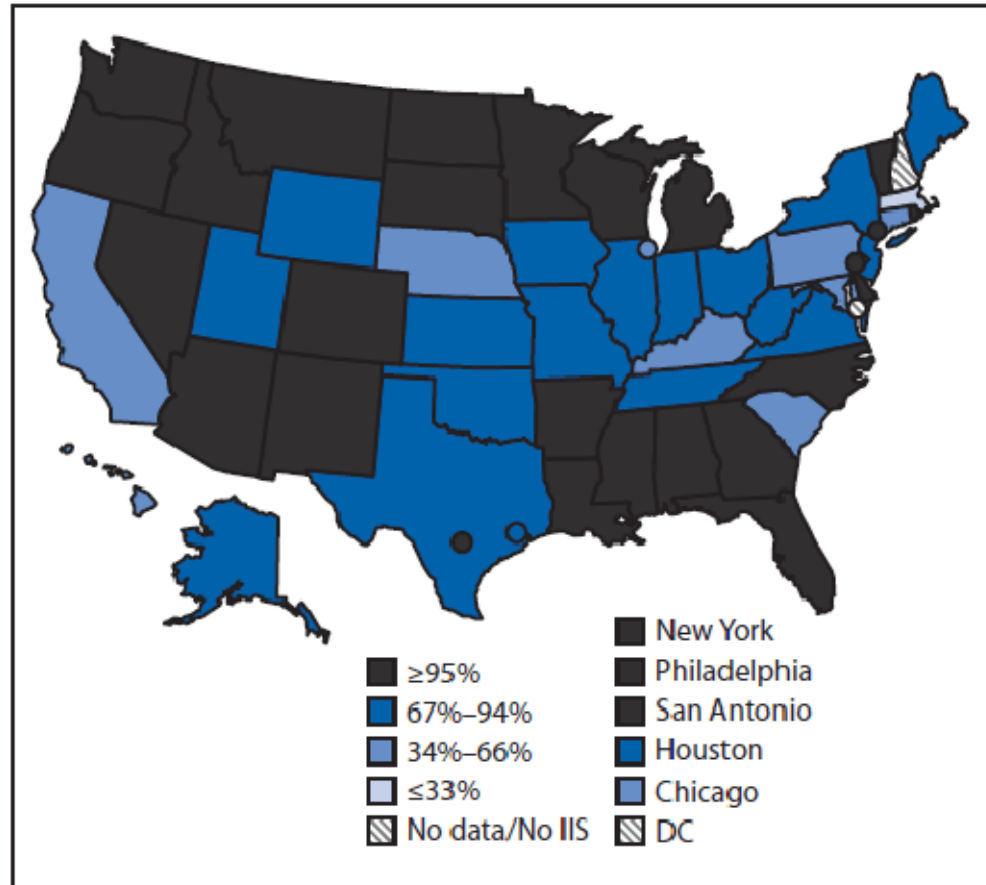
<https://www.cdc.gov/mmwr/preview/mmwrhtml/mm4913a2.htm>



Progress: 2012

Percentage of children aged <6 years participating in an immunization information system (IIS)

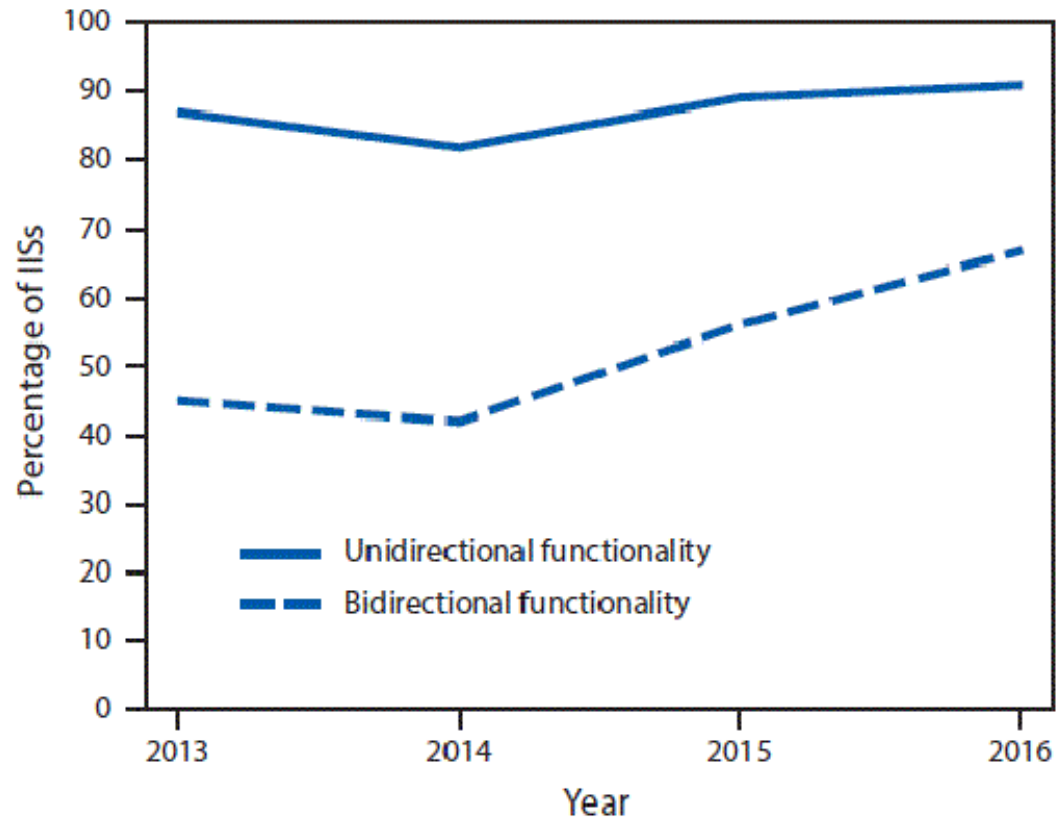
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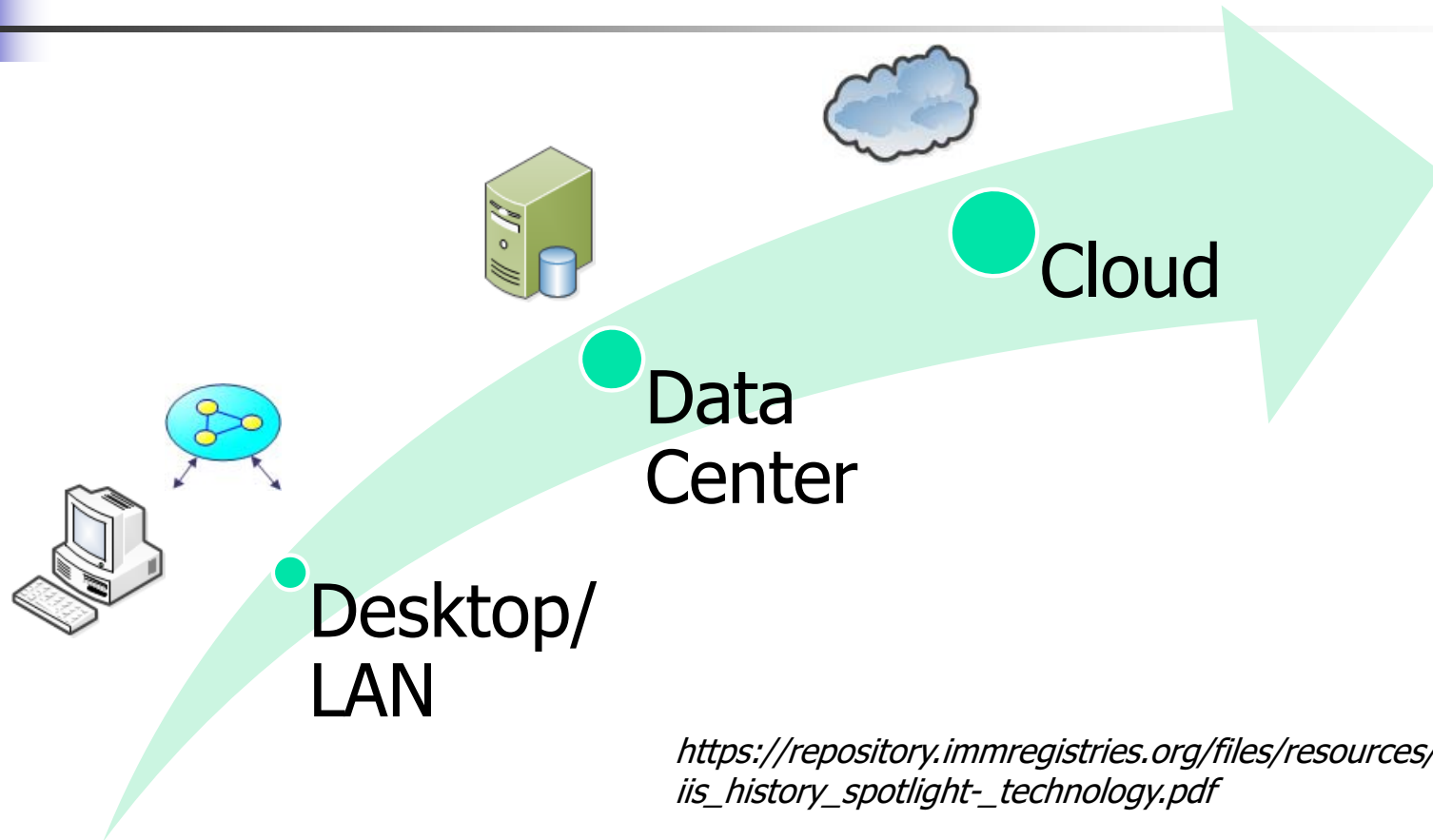
Progress: 2016

Percentage of Immunization Information Systems (IISs) with unidirectional and bidirectional information exchange functionality

<https://www.cdc.gov/mmwr/volumes/66/wr/mm6643a4.htm>

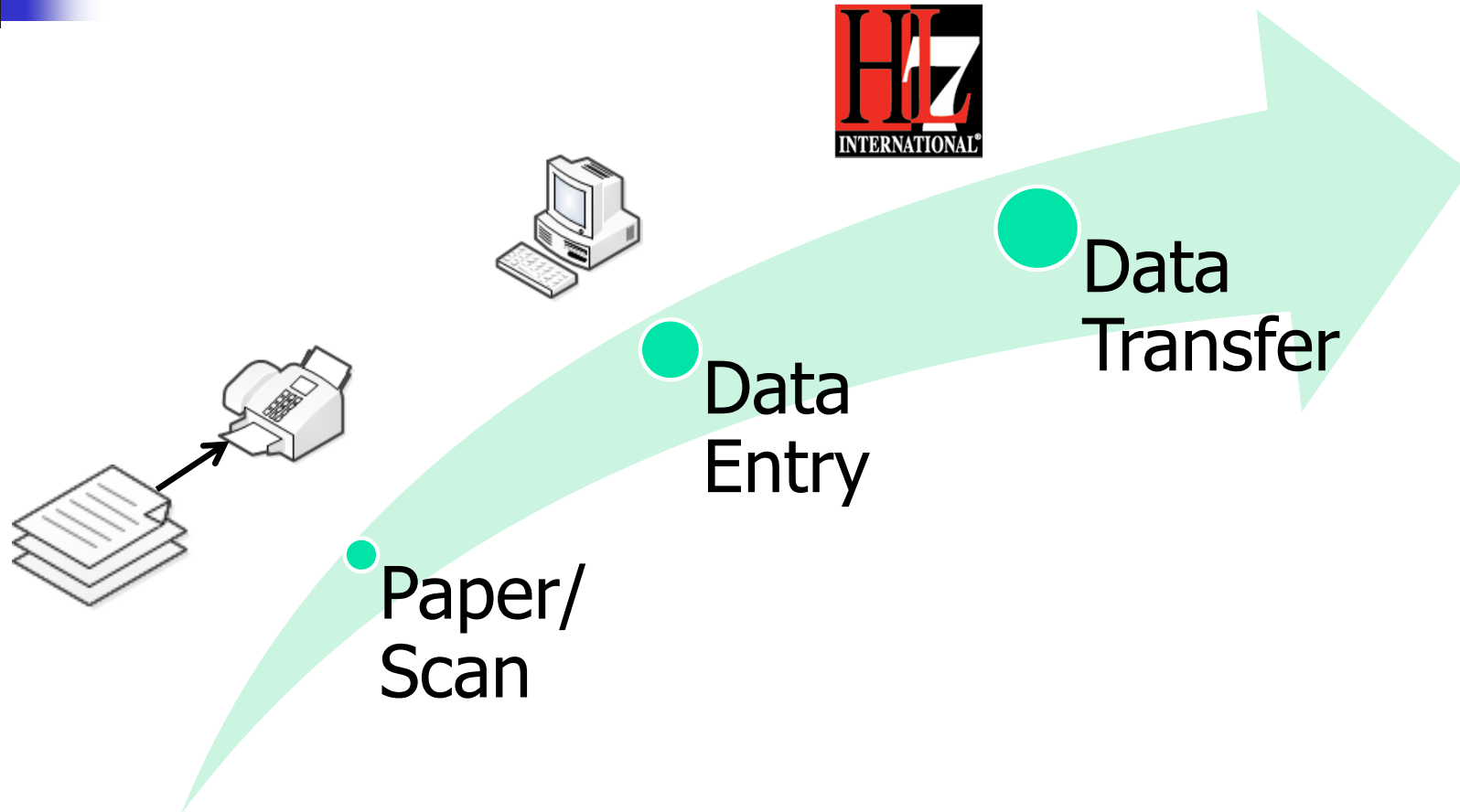


Technical Evolution

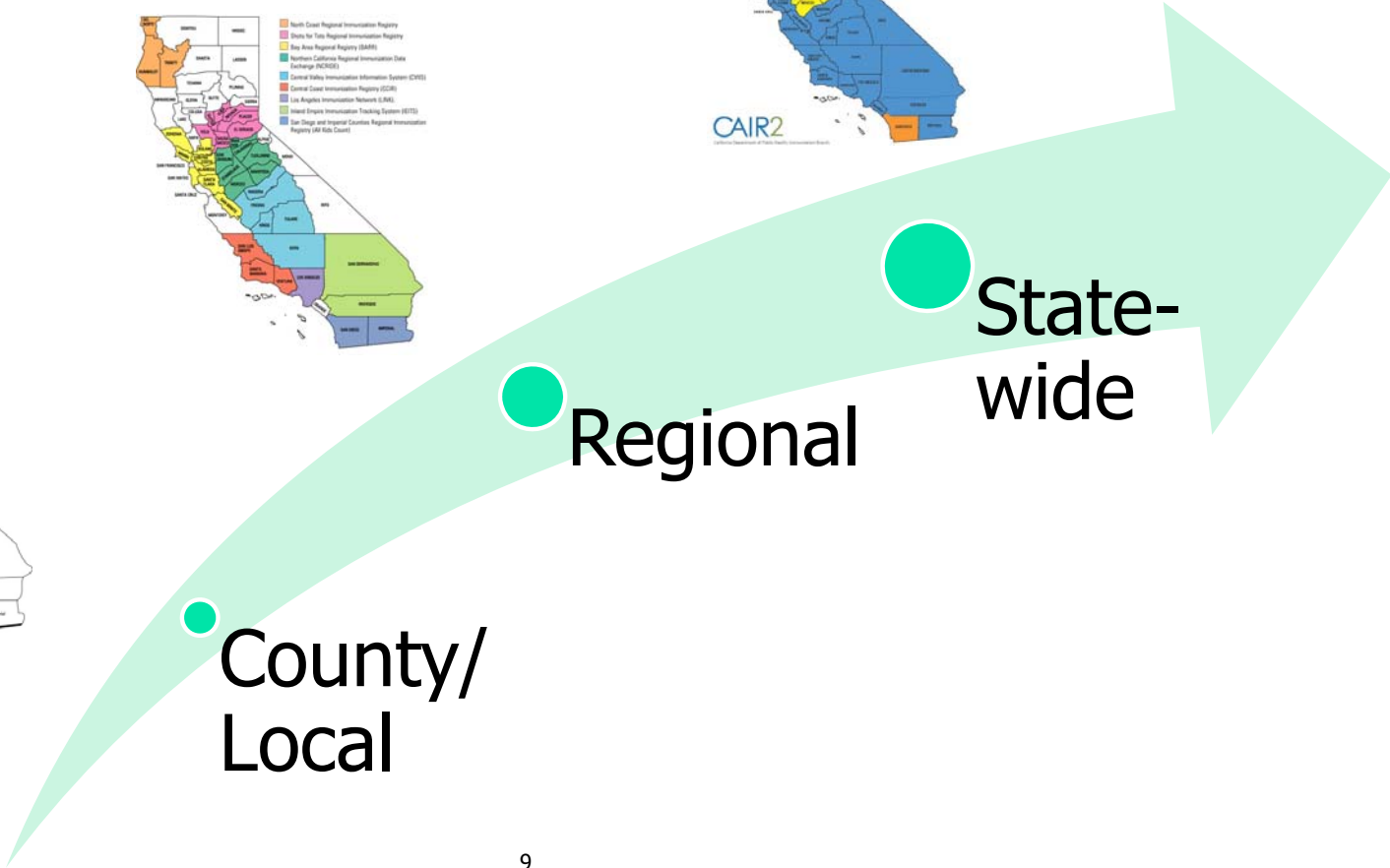


https://repository.immregistries.org/files/resources/5c19b578dc69e/iis_history_spotlight-_technology.pdf

Data Source Evolution



CA SIIS Evolution





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