

Importance of Clinical Decision Support (CDS)

Summit Weekly Update
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Rebecca Coyle, American Immunization Registry Association (AIRA)



Common Definition: Clinical Decision Support (CDS)

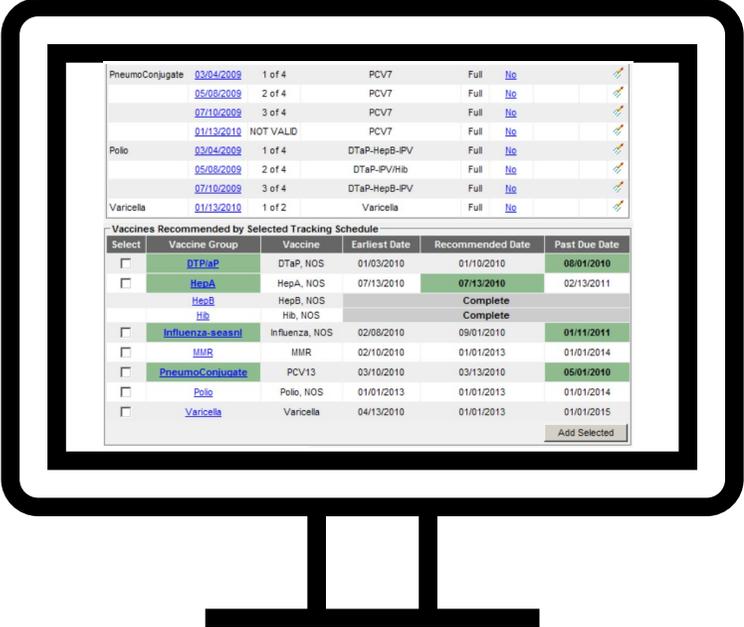
What it is:

- Technology built into systems like EHRs and IIS
- Turns complex medical guidelines into clear, actionable recommendations
- Helps providers make safer, faster decisions



How CDS Supports Vaccine Decisions

- **Evaluation:** Reviews past vaccine doses for timing and spacing
- **Forecasting:** Identifies which vaccines are needed next and when



Select	Vaccine Group	Vaccine	Earliest Date	Recommended Date	Past Due Date
<input type="checkbox"/>	DTPaP	DTaP, NOS	01/03/2010	01/10/2010	08/01/2010
<input type="checkbox"/>	HepA	HepA, NOS	07/13/2010	07/13/2010	02/13/2011
<input type="checkbox"/>	HepB	HepB, NOS		Complete	
<input type="checkbox"/>	Hb	Hb, NOS		Complete	
<input type="checkbox"/>	Influenza-seasonal	Influenza, NOS	02/08/2010	09/01/2010	01/11/2011
<input type="checkbox"/>	MMR	MMR	02/10/2010	01/01/2013	01/01/2014
<input type="checkbox"/>	PneumoConjugate	PCV13	03/10/2010	03/13/2010	05/01/2010
<input type="checkbox"/>	Polio	Polio, NOS	01/01/2013	01/01/2013	01/01/2014
<input type="checkbox"/>	Varicella	Varicella	04/13/2010	01/01/2013	01/01/2015



Why CDS is so Important

Standardizes
recommendations
across systems



Improves patient safety
and confidence



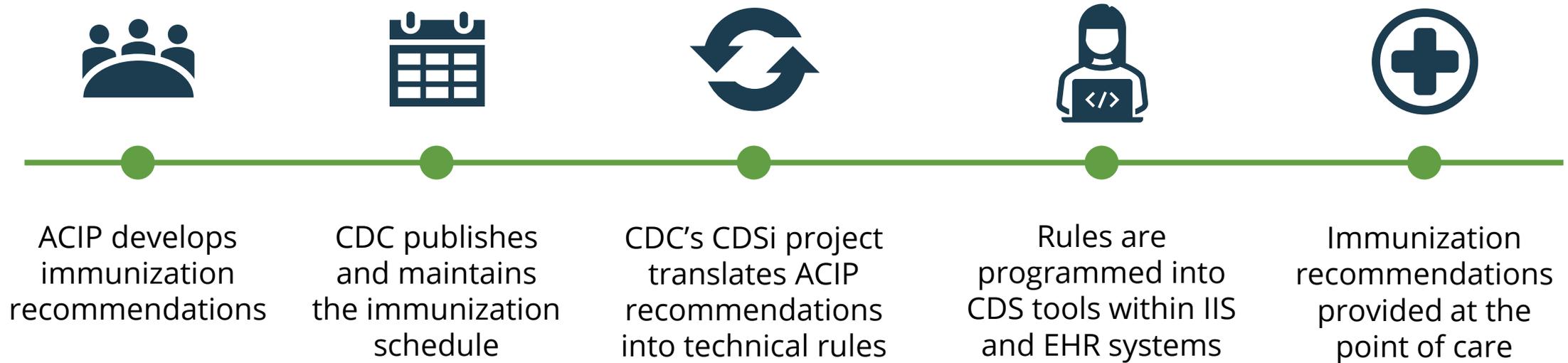
Supports rapid
outbreak response



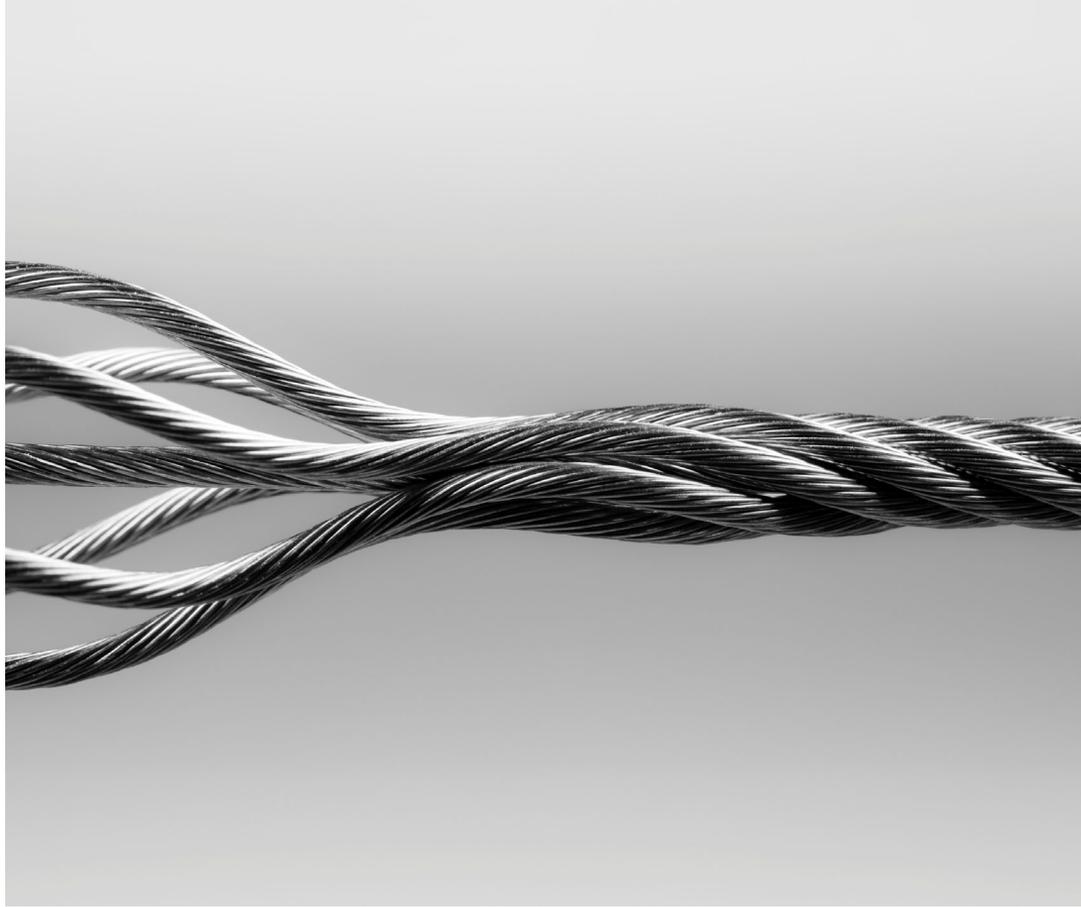
Makes efficient use of
health care resources



Existing process



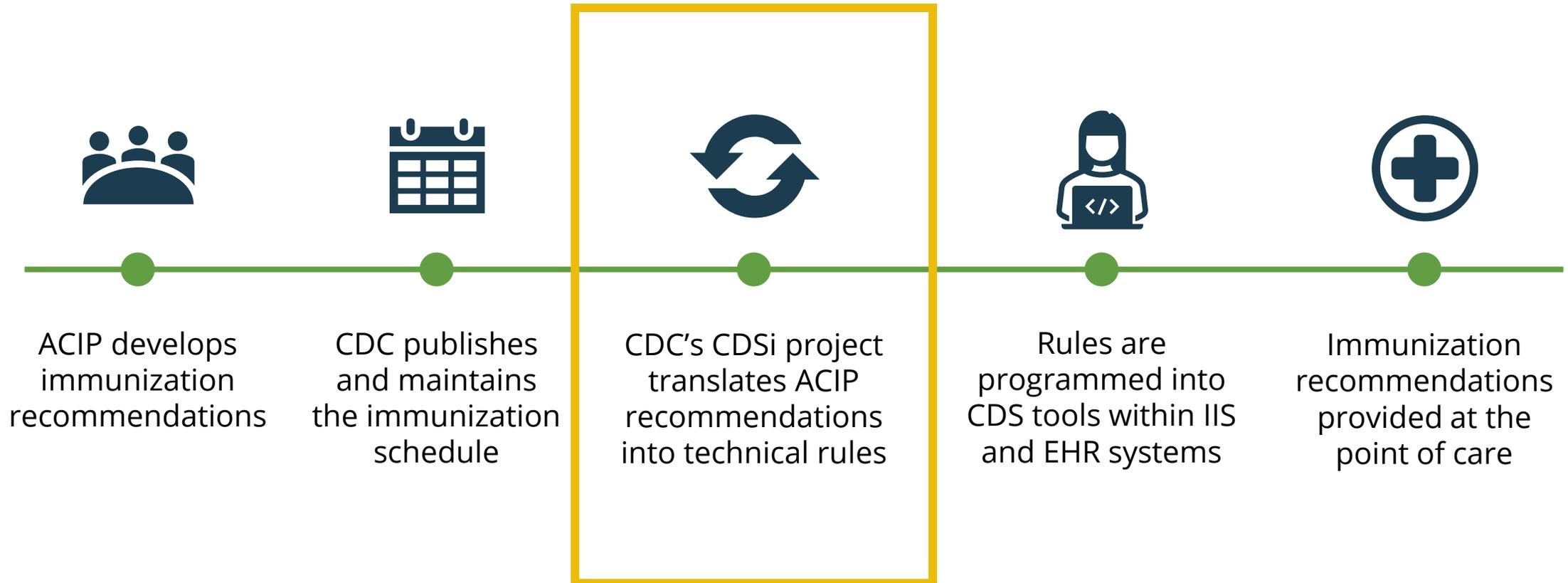
Unraveling the Framework: Technical Burden



- Updating systems for each variation is costly and resource-intensive
 - Some systems cannot currently operate multiple schedules
- Multiple schedules create uncertainty about protection
 - “Up to date” may vary depending on system/jurisdiction

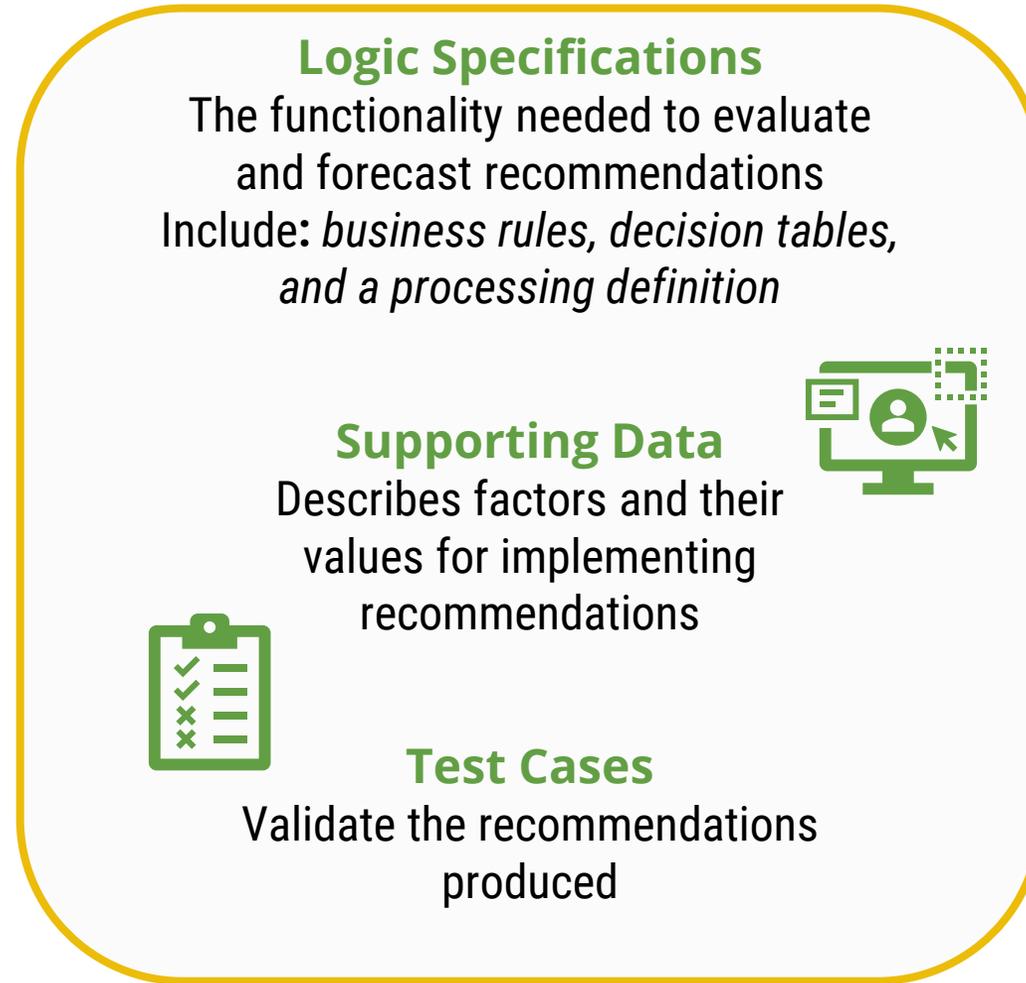


Existing process



Technical Rules = Standardization Across Systems

Recommendations



Updated
CDS
Engines
IIS, EHR,
HIE



What AIRA Will Do



Develop a CDS Landing Page

Generate a neutral location on our website for CDS artifacts

- Clinical decision support artifacts are posted side-by-side
- Includes links to ACIP/CDC CDSi
- Other CDS artifacts
 - Other countries
 - Risk-based

Host preserved CDS artifacts, specifically the Supporting Data



Questions

