



Technology at Work:

The dataLINK Effect

Why We Need the Information

- **Who is connected to K12HSN/CalREN?**
- Assists the program with **capacity planning**
- Supports **funding** and resource allocation
- Helps schools and districts make informed decisions
- Compliance with state and federal reporting requirements
- Promotes **transparency** and accountability
- Technology **Data Collection stopped** around 2010

History of dataLINK

- Launched by K12HSN in **2017**
- Strategically built to provide direct access to connectivity data for California K-12 schools, districts, and county offices
- Supports **CDE and legislators** in improving network infrastructure for **CAASPP**
- Used by education agencies and news outlets to track technology trends
- **Imports** every school site in California directly from the California Department of Education database
- Connectivity data is **self-reported** by school district staff
- Each year, our team works with node site representatives and districts to update connectivity information

Statistical Data

Students on HSN

4.7M

Students connected of 5.8M

Students per Kbps

4.3M

students connected at 1,001 Kbps/student or higher

1.0M

students connected at 101 to 1,000 Kbps/student

250.9K

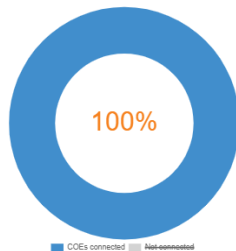
students connected at 100 Kbps/student or lower



dataLINK, designed by the K-12 High Speed Network (K12HSN) program, offers direct access to connectivity data and related information for California's K-12 schools and districts.

CONNECTED TO K12HSN

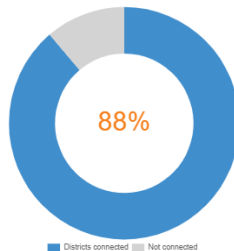
COEs



COEs connected Not connected

58 of 58 connected

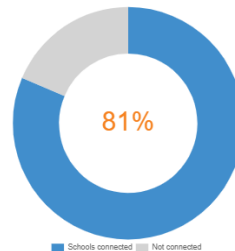
Districts



Districts connected Not connected

848 of 955 connected

Schools

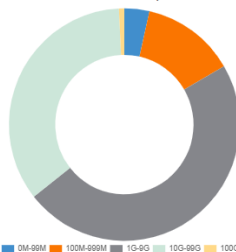


Schools connected Not connected

8,247 of 10,131 connected

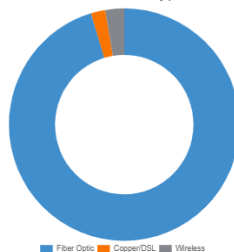
CONNECTION DETAILS

Connection speed



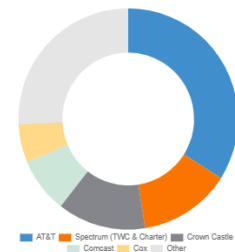
2M-50M 100M-500M 10-50 100-500 100+

Connection type



Fiber Optic Copper/DSL Wireless

Provider



AT&T Spectrum (TWC & Charter) Crown Castle Comcast Cox Other

Sync Sites and Student Information From CDE

dataLINK automatization



Download CDE File

Download Public Schools and Districts Data File from CDE



Import file data to DB

Import file data to our Database



Sync DB Tables

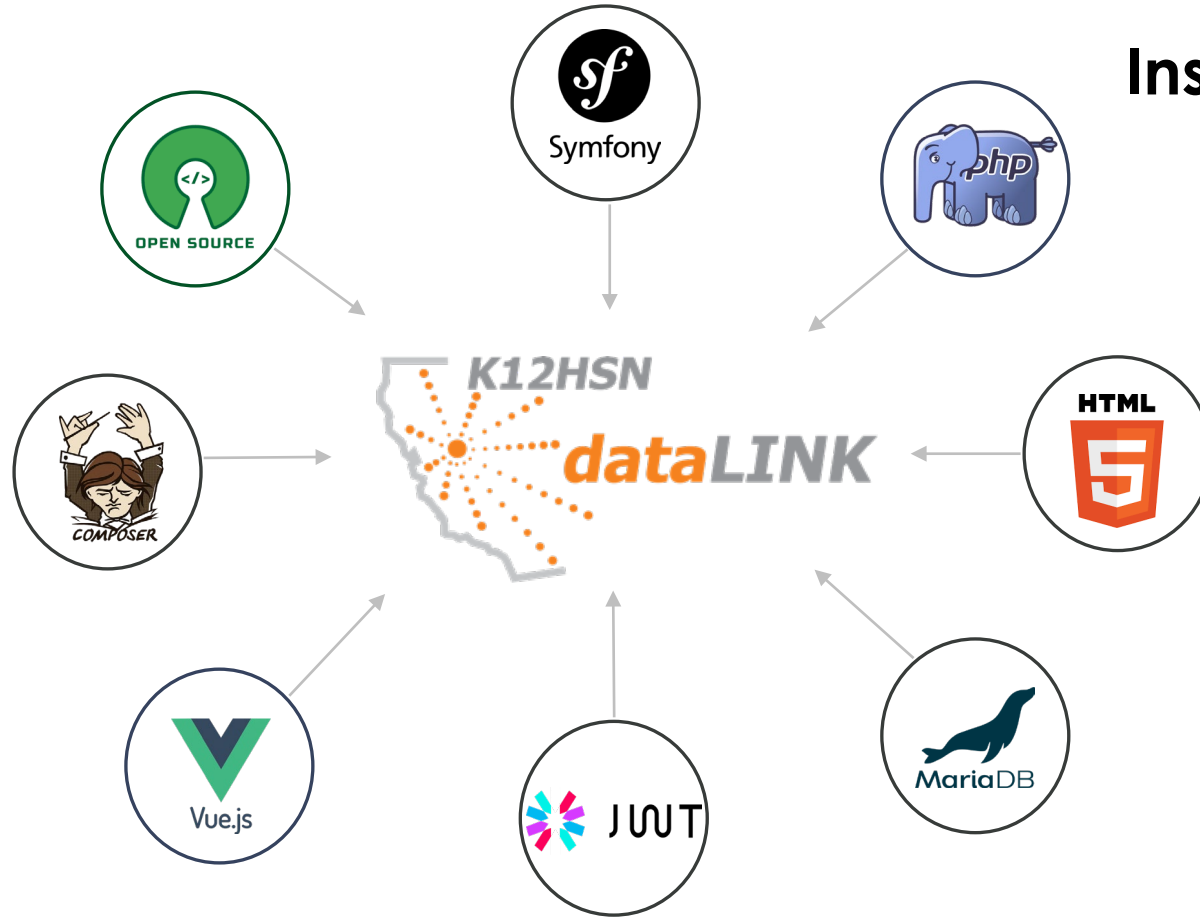
Synchronize Database Table for new sites and update the Site's information



Same process for Student's Enrollment data

We use the same process to pull, import, and sync the Student Enrollment data from CDE

Inside dataLINK



How is data classified?

0-3-year-old data is
Current

K12HSN node

K12HSN connected

Primary connection Information

Last update: 04/10/2025 by Ivette Magaña (view update history)

Connection info still current?

Type

Fiber Optic (Terrestrial Point-to-Point)

Speed

200

Gbps

Mbps

Install date

mm/dd/yyyy

Provider

Crown Castle

Provider not listed?

Connects to

Tustin Hub

Site not listed?

Cancel changes

Save info

4-5-year-old data is
Stale

K12HSN connected

Primary connection Information

Last update: 09/09/2020 by Teri Sanders (view update history)

Type

Fiber Optic (Terrestrial Point-to-Multipoint)

Speed

2

Gbps

Mbps

Install date

mm/dd/yyyy

Provider

AT&T

Provider not listed?

Connects to

Davis Joint Unified

Site not listed?

Cancel changes

Save info

5+ year old data is
Rotten

K12HSN connected

Primary connection Information

Last update: 03/27/2018 by Patrick Sevilla (view update history)

Type

Fiber Optic (Terrestrial Point-to-Point)

Speed

100

Gbps

Mbps

Install date

mm/dd/yyyy

Provider

Frontier

Provider not listed?

Connects to

Los Angeles County Office of Education [Nox

Site not listed?

Cancel changes

Save info

Data

DataLINK

State Report

Site_Na	Site_Ty	Site_Is
Imperial C CoE		
Valley Acad School	N	
Imperial P School	Y	
Imperial C School	N	
Imperial C School	N	
Brawley El District		
Padilla-Pac School	N	
Barbara W School	N	
Miguel Hid School	N	
J. W. Oakle School	N	
Myron D. V School	N	
Phil D. Swi School	N	
Brawley U District		
Renaissanc School	N	
Desert Vall School	N	
Brawley Tr School	N	

dataLINK

0-3 Y

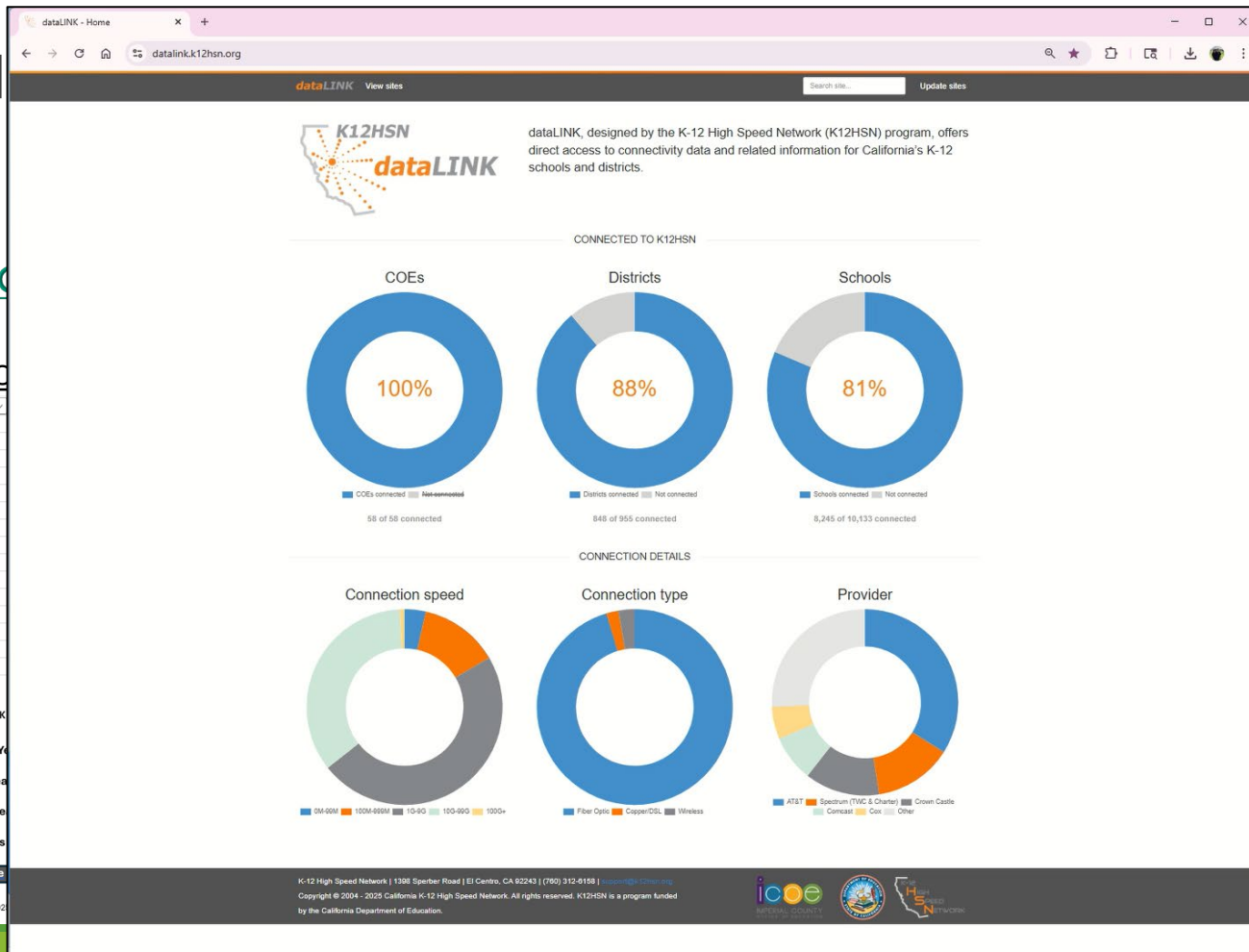
4-ye

5+ ye

Sites

Site

Rev. 01/202



Data Entry

Brawley Elementary Sites
Select sites with correct bandwidth and provider:

☐ Select all

CDS Code	Site Name	Bandwidth	Provider	Last Updated
<input checked="" type="checkbox"/> 1363073000000	Brawley Elementary	10000 Mbps	IVTA	03/27/2025
<input type="checkbox"/> 13630736008262	Barbara Worth Junior High	10000 Mbps	IVTA	03/27/2025
<input type="checkbox"/> 13630736008288	J. W. Oakley Elementary	10000 Mbps	IVTA	03/27/2025
<input type="checkbox"/> 13630736008270	Miguel Hidalgo Elementary	10000 Mbps	IVTA	03/27/2025
<input type="checkbox"/> 13630736008296	Myron D. Witter Elementary	10000 Mbps	IVTA	03/27/2025
<input type="checkbox"/> 13630730142414	Padilla-Pace Middle	10000 Mbps	IVTA	04/01/2025
<input type="checkbox"/> 13630736008304	Phil D. Swing Elementary	10000 Mbps	IVTA	03/27/2025

[Cancel](#) [Confirm sites](#)

Brawley Elementary (District)

261 D St., Brawley, CA 92227-1912

CDS Code: 13630730000000 [Report this site as closed](#)

● K12HSN connected

Primary connection Information

Last update: 03/27/2025 by Michael Kahler ([view update history](#))

Connection info still current?

Type Fiber Optic (Terrestrial Point-to-Point)

Speed 10 [Gbps](#) [Mbps](#)

Install date mm/dd/yyyy

Provider IVTA [Provider not listed?](#)

Connects to Imperial County Office of Education [Node] [Site not listed?](#)

[Cancel changes](#) [Save info](#)

Secondary connection

Planned upgrade

Utilization survey

Challenges

Data Collection	Staff Turnover	Low Program Awareness	Time Constraints	"Out of Sight, Out of Mind"	Insufficient Data Management
Technical	Automation	Security	Cost	Accuracy	API integration

Looking ahead, K12HSN Objectives

- Maintain the system's **ease of use** and accessibility
- **Reduce friction** in data entry
- **Improve report** processing speed by leveraging Stale/Rotten data reports
- Facilitate Communication; Opportunities for **district feedback**
- Provide support and maintain **ongoing collaboration** with COEs and districts

Closing / Questions

Thank You!

“Your data helps build stronger schools.”

“Accurate data, empowered learning”

datalink.k12hsn.org

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