

Instructional Technology

The Other IT in AUSD

PAST, PRESENT, FUTURE!

March 27, 2018, Board of Education

Information Update on Instructional Technology

Presenter: Jan Carroll, TSA in Instructional Technology

Evolution of Connectivity in AUSD

- Stand-Alone Computers
- Wired Networks
- Wireless Networks

Revolution in Access and Content

- New Technologies: Google & Apple Inventions
- From Computers to Devices
- District Domains and Google Classrooms

Presentation on...

Evolution of Connectivity in AUSD

*Stand-Alone to Wired to Wireless Networks

Revolution in Access and Content

*New Technologies--Google, Apple

*Computer to Devices

*Google Domains & Classrooms

A Look at the Past

1980-2000

*Vocational Tech

*1991 World Wide Web

* Schools wired

*Student Tech: Windows Stations





2006-2007: From Programs to Apps/Devices

*2006 Google Apps

*2007 First iPhone



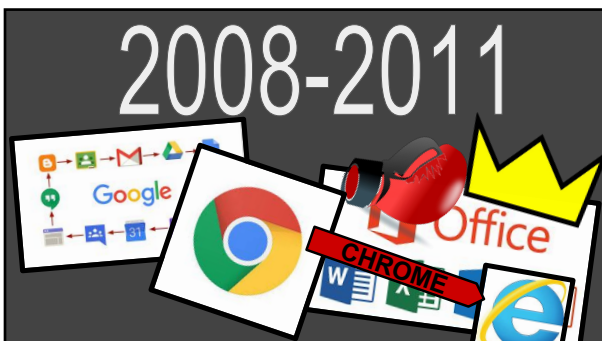
2007: Global Revolution

* Mobile, accessible knowledge

*Disrupting industries

*Creating new economies

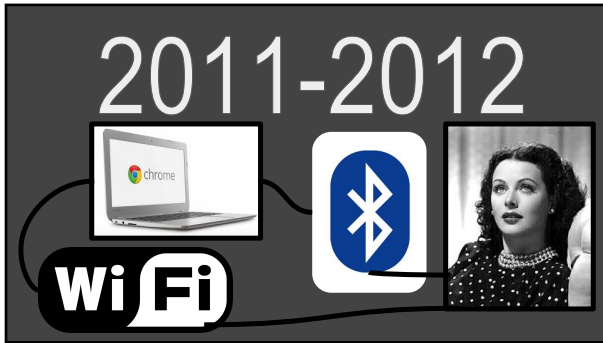
*24/7 Social interaction



2008-2011: Browser Battles

*Chrome browser introduced

*Challenges Microsoft

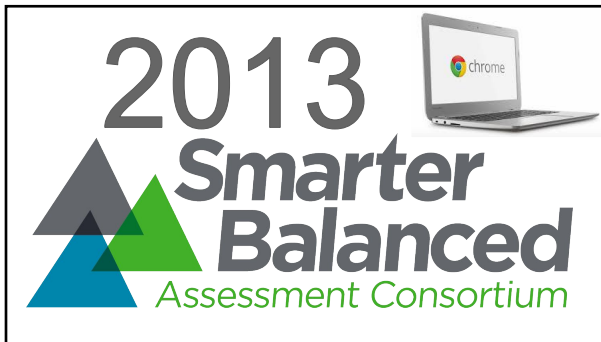


2011-2012

*Chromebook introduced

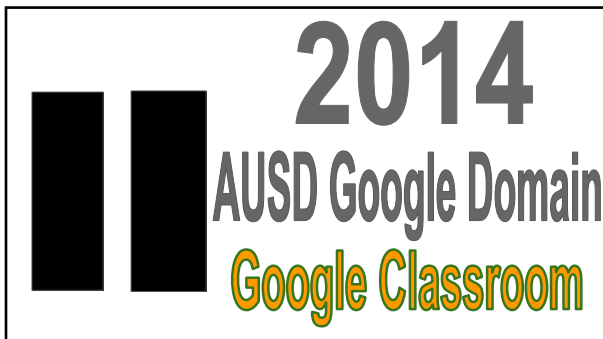
*Schools move to wireless connectivity

*Aside: Hedy Lamarr invented frequency hopping,
basis of WiFi, Bluetooth and GPS



2013

*Common Core Assessment, SBAC delivered via
Chromebooks



2014 Secured AUSD Google Domain

*Benefits: walled garden for students under 13, no
ads, managed by District

*Google Classroom, learning management system
also introduced for students with teachers as
managers.

2015-2017

The Present

“If you build it,
they will come.”

2015-2016

*Infrastructure created to support Instructional Technology

Construction of an EdTECH Infrastructure

- Instructional Technology Work Groups (ITWG)
- Technology Committee
- Funding the Infrastructure

Transformation: Professional Development

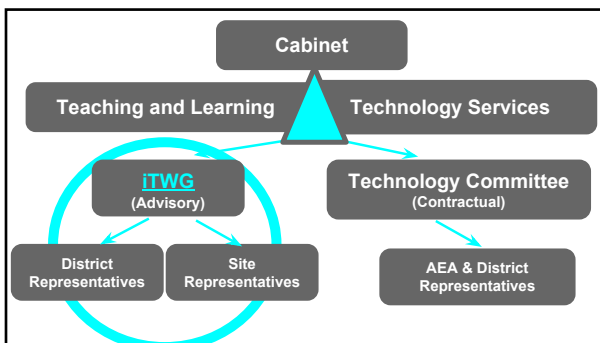
- Peer Trainers
- The Training Program
- The Instructional Technology Budget

A Look at the Present

2015-2016

*Next slides look at construction of EdTECH infrastructure--workgroups/committees/funding

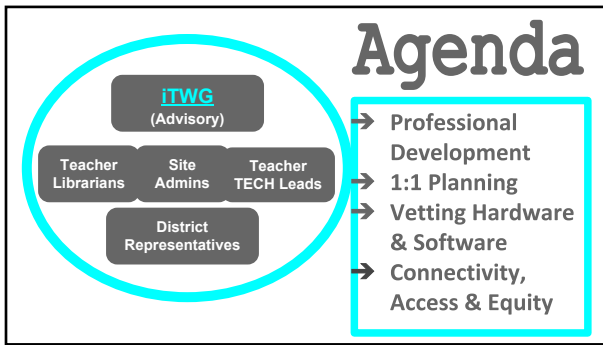
*Transformation: Professional Development, the trainers, training program, and funding



2015-2016: iTWG

*Elementary and Secondary Cohorts of site admins, teacher librarians and/or teacher tech leads

*iTWG representations--some are EdTECH trainers, too

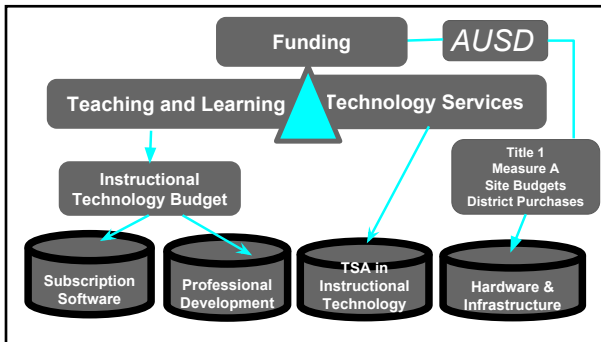


2016-2017

*Focus of iTWG--mainly Professional Development

*Other items: 1:1 planning, vetting software/hardware

*Connectivity, Access & Equity



2016-2017

*Funding through 2 District departments

Instructional Technology Budget


Item	17-18 Budget	Funding Source
Staffing (1.0 FTE TSA)	\$116,066	Technology Services General Fund
Professional Development	\$68,000	Teaching and Learning Title 2
Software	\$142,000	Teaching and Learning General Fund
	\$110,000	Teaching and Learning LCFF Supplemental
Total	\$436,066	

2017-2018

This year's budget for Instructional Technology

EdTECH Trainers

← 2016-2017



2017-2018 →

Connie Chapman
 Roxanne Clement
 Amy Frary
 Kelly Gregor
 Erin Head
 Paul Igaz
 Diana Kenney
 Amy Kesner
 Lynn Kinsey
 Jessica Lucio
 Kerry McKee
 Nancy Read
 Pat Slattery

Connie Chapman
 Roxanne Clement
 Marianne Dilworth
 Amy Frary
 Kelly Gregor
 Erin Head
 Diana Kenney
 Amy Kesner
 Lynn Kinsey
 Jessica Lucio
 Nancy Read
 Paizley Spencer
 Charlie Satterfield
 Ayana Thompson

2017-2018

*Winter/Spring/Summer 2017 Trainers

*Fall/Winter/Summer 2017-2018 Trainers

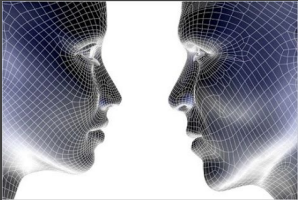

PD Costs Breakdown

AUSD EdTech → Reps, Trainers and Trainees

COSTS	17-18 Budget	FUNDING SOURCE
Hourly	\$54,000	Title 2
Substitutes	\$9,200	Title 2
Conferences	\$4,800	Title 2

2017-2018

*Breakdown of Professional Development costs

Face2Face and Online Courses

2017-2018

*Training delivered Face-2-Face and online

STATS 2017-2018	
Training	Total Hours (Est.)
→ Face-2-Face Courses	777
→ Online Courses and Support	254
→ Trainers' F2F & Online Time	615

2017-2018

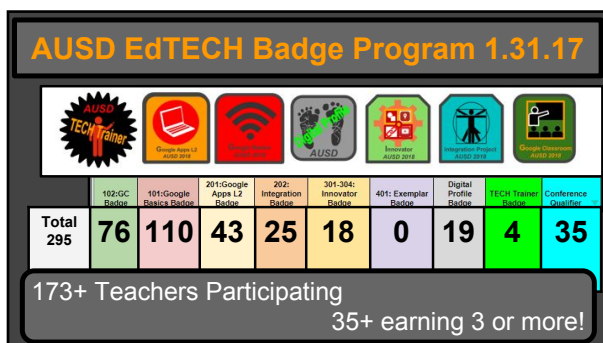
*Training hours--1031 est. for trainees

*Trainers' hours--615 est.



2017-2018

*Delivery of content through Google Classroom, a web-based learning management system used with students and staff



2017-2018: Badge Program 1.31.17

Badge program among many motivations for staff participating in training



CSEA TRAINING

SCHEDULES FOR 10.21.17



AERIES	PARAPROFESSIONAL PROGRAM (26)	Google My Drive, Team Drives, and Docs, Oh My!
<ul style="list-style-type: none"> 8-12:00 (8) 12:00-12:30 Lunch 12:30-2:30 (2) 	<ul style="list-style-type: none"> 8-10:00 Google Drive & Chrome 10-10:10 Break 10:10-12:00 Google Apps 12:00-12:30 Lunch 12:30-2:30 Sandbox Activities 	<ul style="list-style-type: none"> 8-10:00 My Drive, Docs & Team Drives (10) 10-10:10 Break 10:10-12:00 Sandbox Activities (10) 12:00-12:30 Lunch 12:30-2:30 Google Forms + Sandbox (16)

AUSD EdTech Trainers also were part of the May 2017 CSEA Symposium

2017-2018

*Trainers also provide workshops for CSEA members and hope to expand offerings

Conferences

FALL

CUE

2017

NAPA VALLEY

AMERICAN CANYON HIGH SCHOOL

OCTOBER 27-28

MOUNTAIN VIEW HIGH SCHOOL





CALIFORNIA SUMMIT



#BOLD CLASSROOMS



2016-2017

*Last 2 years, conferences are part of PD program--ISTE, CUE and Google Summits



2017-2018

*Goal of shifting away from sage on the stage to providing opportunities for student agency with technology as a key component

Summary of current district wide instructional technology expenditures (2017-18)		
Expenditure	Amount	Funding Stream and Notes
Discovery Education Subscription	\$36,300.00	General Fund (Unrestricted)
Typing Club Subscription	\$ 1,200.00	General Fund (Unrestricted)
Hapara Subscription	\$27,200.00	General Fund (Unrestricted)
Acellus	\$ 3,100.00	General Fund (Unrestricted) - Supplemented by Grant
Starfall Annual License	\$ 1,200.00	General Fund (Unrestricted) - Per FDK Implementation
Successmaker	\$80,200.00	LCFF Supplemental (Sunsetting in Summer 2018)
Tumblebooks Subscription	\$ 3,200.00	General Fund (Unrestricted) - Per FDK Implementation
Cyberhigh Subscription	\$24,400.00	LCFF Supplemental - 9-12 Credit Recovery System
World Book Encyclopedia	\$ 3,700.00	General Fund (Unrestricted)
Encyclopedia Britannica	\$10,990.00	
EADMS	\$35,300.00	General Fund (Unrestricted) - Data/Assessment Tool
TOTAL	\$226,790.00	

2017-2018

*Current expenditures for software under Instructional Technology budget



2017-2018

*Trends in TECH--what AUSD has purchased and is purchasing

AUSD Standard for Classroom TECH	Costs/Unit
Teacher Desktop/Laptop	\$600/\$800
Doc Cam	\$500
Display--1 Per Classroom	
• LCD Projector	\$400
• Short Throw Projector	\$2000
• Flat Panel/SMARTBoard	\$3000
Site Student-Side TECH	Costs/Unit
Chromebook	\$225
Chromecart	\$1000

2017-2018

*Standard classroom TECH and unit costs

*Standard site TECH and unit costs

AUSD'S FUTURE in Instructional Technology? 1:1

A Look at the Future

2018 and Beyond

*1:1 Chromebook/Device access

2018

*2000 units away from 1:1

2018+ Elementary

*Approaching District aspiration, but sites may want to have 1:1 at every grade level

1:1 STATS	Site	Grand Total	Enrollment	Students per Chromebook
	Earhart	342	637	1.86
	Bay Farm	480	637	1.33
	Edison	302	467	1.55
	Franklin	403	349	0.87
	Haight	628	586	0.93
	Maya Lin	356	410	1.15
	Otis	399	646	1.62
	Paden	418	389	0.93
	Ruby Bridges	530	554	1.05
	Lincoln	441	882	2.00
	Wood	481	612	1.27
	Alameda High	997	1767	1.77
	Encinal	1429	1310	0.92
	ASTI	131	186	1.42
	Island	185	114	0.62
	Adult School	25	N/A	N/A
	Grand Total	7547	9546	1.26

1:1 Elementary

One Scenario

Kindergarten

12 Touch Chromebooks/Classroom

Grades 1-2

1:2 Chromecart/Classroom

Grades 3-5

1:1 Chromecarts/Classroom

1:1 Secondary

Options for Distribution (Discussion Phase)

1:1 On Site Access Only

- 1:1 Chromebook per Pupil

1:1 BYOD & District Loaners for Home and School

- 1:1 Device per Pupil to carry between home and school

1:1 District Distribution for Home and School

- 1:1 Device per Pupil provided by District

Equity: Facilitated WiFi Access, Home Loaner Plan

2018+ Secondary

*Grade level and home access discussions

*Logistical issues for each scenario

*Common thread--facilitating WiFi access and home loaners when needed

Professional Development

Curriculum Integration

Subscription Software

Digital Citizenship

MORE

AUSD EdTech is

- Technology Services
- Teaching and Learning
- TSA, iTWG & Technology Committee
- Teacher/Librarians
- Teacher TECH Leads
- Trained and Training Staff

2018+ Continued Support Needed

1. Professional Development--high quality needed
2. Training on technology integration into the curriculum
3. Continued vetting of web-based curriculum and hardware.
4. Digital Citizenship emphasis for students, staff & community