



Broadband Connectivity is Transforming Healthcare

NTIA Webinar Series

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Conference Line: 800-593-7190 Passcode: 984-4951#

November 14, 2018

Participants

Moderator

- Scott Woods, Manager BroadbandUSA Technical Assistance, National Telecommunications and Information Administration (NTIA)

Presenters

- Damon A. Darsey, MD, FACEP, Associate Professor of Emergency Medicine & Pediatrics; Medical Director, Mississippi Center for Emergency Services
- Roy Kitchen, M.S., Arkansas e-Link Network Director; Business Administrator, Center for Distance Health; USAC Project Coordinator; UAMS, College of Medicine
- Curtis Lowery, M.D., Maternal-Fetal Medicine; Professor and Chair; ANGELS Medical Director; (Antenatal & Neonatal Guidelines, Education and Learning System); The Center for Distance Health; Executive Director; SARA Professor and Principal Investigator; (Squid Array for Reproductive Assessment)

Helpful Information

Questions

- Please type questions in the Q&A box on the right hand side of the screen. Questions will be taken after the final presenter.

Presentation

- The presentation along with a transcript and an audio recording will be available on the BroadbandUSA website within 7 days of this webinar under Events/past events.
- <https://broadbandusa.ntia.doc.gov/past-event>

Technical Assistance

- Guides, products, publications, and other tools are available to assist you with the planning, funding and implementation of your broadband project.
- <https://broadbandusa.ntia.doc.gov>

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Mobile Broadband and Emergency Medicine

Damon A. Darsey, MD, FACEP

Associate Professor of Emergency Medicine & Pediatrics

Medical Director

Mississippi Center for Emergency Services

The Mississippi Experience

- Mobile Tele-Assist System
- Collaborative Relationship with Regional Cellular Carrier
- Extensive telemedicine system
- The changing healthcare environment
- Pre-hospital challenges and opportunities



The Big Challenge



Population Coverage

Geographic Coverage

Your plan to meet the challenge?



Make Operational Changes to match coverage

OR

Make Coverage match Operational Changes

The Role of Telemedicine



Supportive Oversight Direct Clinical Care

Damon A. Darsey, MD, FACEP

Associate Professor of Emergency Medicine & Pediatrics

Medical Director, Mississippi Center for Emergency Services

Telemedicine in Arkansas

Roy Kitchen

University of Arkansas for Medical Sciences Center for Distance Health
Arkansas e-Link Network Director

Curtis Lowery, MD
Chair, OB/GYN-MFM

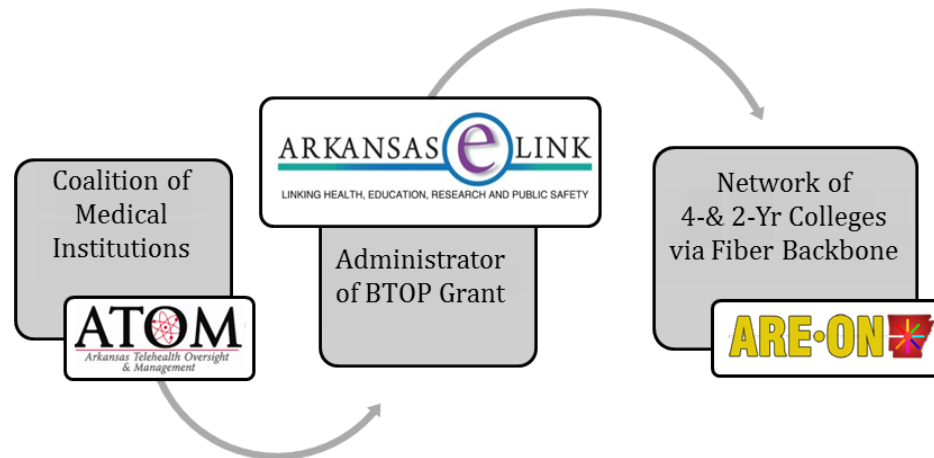
Founder & Director, ANGELS & Center for Distance Health
University of Arkansas for Medical Sciences

What is Arkansas e-Link?

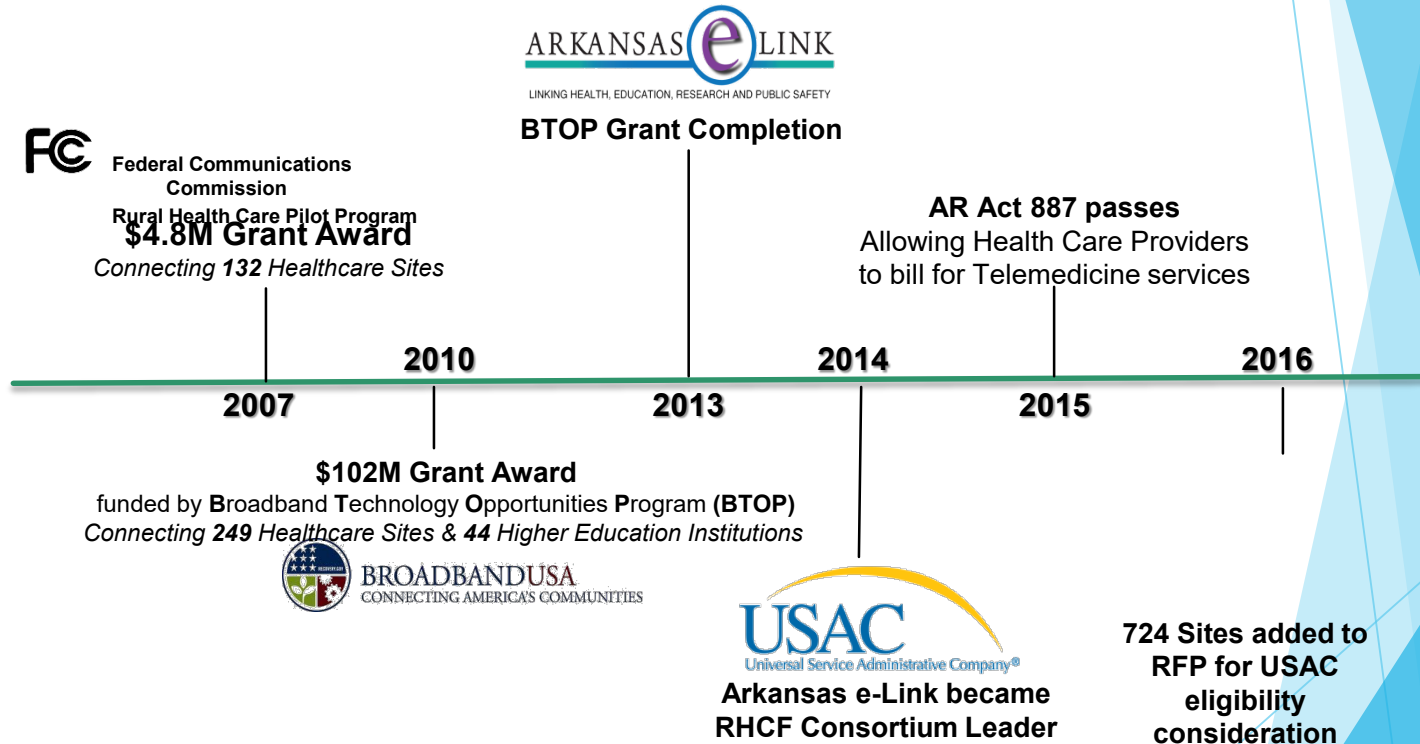
A dedicated high-speed, HIPPA compliant broadband network with video access to 1000+ endpoints.

The University of Arkansas for Medical Sciences (UAMS) applied for \$102 million in ARRA broadband economic recovery funds to expand and integrate two existing networks:

- ▶ Arkansas Telehealth Network
- ▶ Arkansas Research and Education Optical Network (ARE-ON)



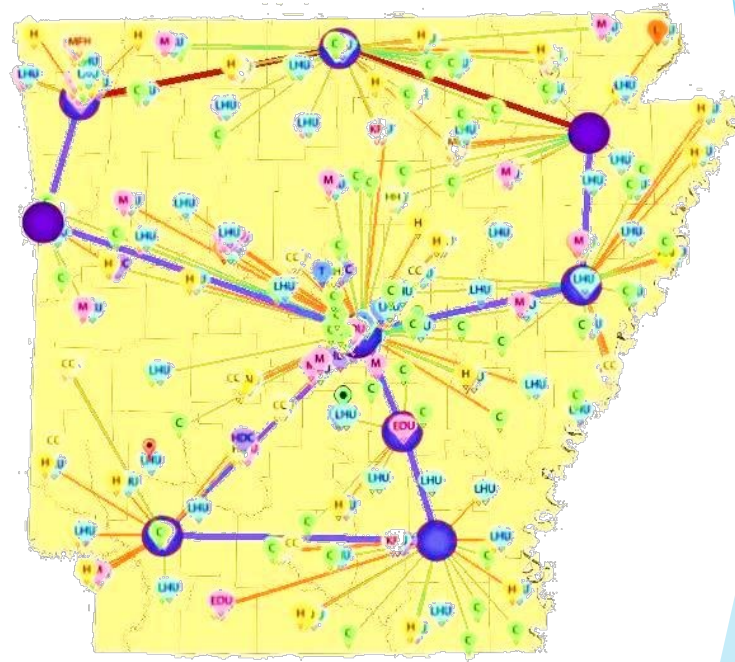
Evolution from FCC Rural Health Care Pilot Program to USAC Health Care Connect Fund (HCF) Consortium Leader



Arkansas' Connectivity Before & After BTOP



BEFORE
(2010)



AFTER (2013)

Health Care Disparity

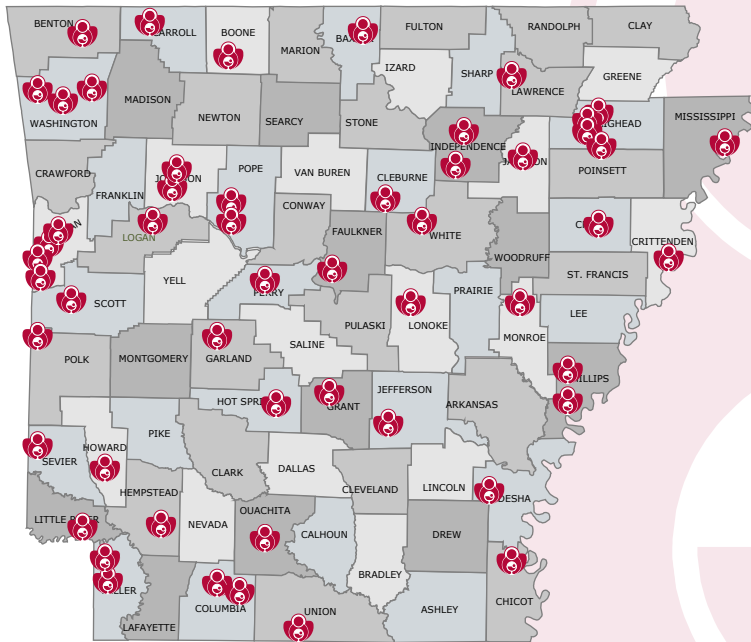
*Where you
live should
not
determine
whether you
live or die!*



ANGELS Telemedicine Program

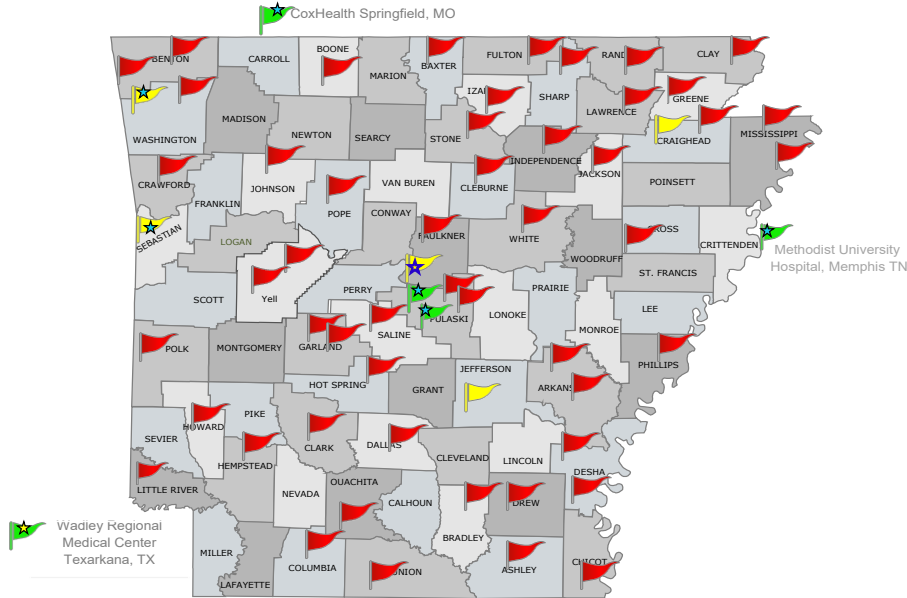


ANGELS Telemedicine Consults



FY 2018
2,822
Telemedicine
patient visits
provided across
the state

AR SAVES



★ Receiving Sites (INTERVENTION & ICU CAPABLE)

- UAMS Medical Center
- Baptist Health Medical Center
- Cox Health
- Methodist University Hospital
- Sparks
- Washington Regional Medical Center
- Little Rock
- Springfield
- Memphis
- Fort Smith
- Fayetteville
- Pulaski
- Missouri
- Tennessee
- Sebastian
- Washington

★ Receiving Facilities (ICU CAPABLE)

- Jefferson Regional Medical Center
- Conway Regional Medical Center
- Wadley Regional Medical Center
- St. Bernard's Regional Medical Center
- Pine Bluff
- Conway
- Texarkana
- Jonesboro
- Jefferson
- Faulkner
- Texas
- Craighead

Name

- Spoke Sites
- Spoke & Receiving Site
- Receiving Site

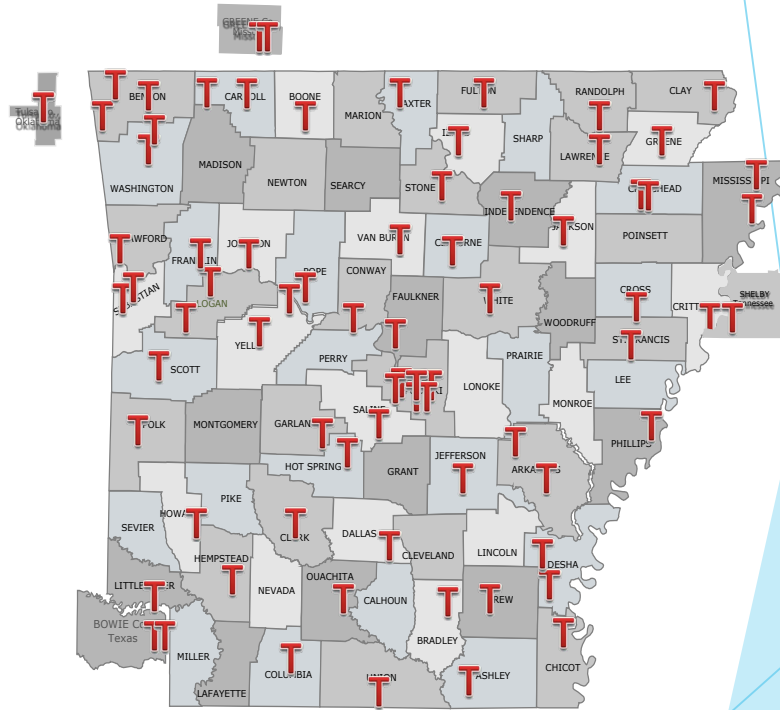
City

County

Baptist Health Medical Center	Arkadelphia	Clark
Little River Memorial Hospital	Ashdown	Little River
White River Medical Center	Batesville	Independence
Saline Memorial Hospital	Benton	Saline
Northwest Medical Center	Bentonville	Benton
Siloam Springs Regional Hospital	Siloam Springs	Benton
Great River Medical Center	Blytheville	Mississippi
Community Medical Center of Izard County	Calico Rock	Izard
Ouachita County Medical Center	Camden	Ouachita
White River Medical Complex	Cherokee Village	Sharp
Johnson Regional Medical Center	Clarksville	Johnson
Ozark Health Medical Center	Clinton	Van Buren
Baptist Health Medical Center	Conway	Faulkner
Conway Regional Medical Center	Conway	Faulkner
Ashley County Medical Center	Crossett	Ashley
Chambers Memorial Hospital	Danville	Yell
River Valley Medical Center	Dardanelle	Yell
Dewitt Hospital and Nursing Home	DeWitt	Arkansas
Delta Memorial Hospital	Dumas	Desha
Medical Center of South Arkansas	El Dorado	Union
Washington Regional Medical Center	Fayetteville	Washington
Dallas County Medical Center	Fordyce	Dallas
Sparks	Fort Smith	Sebastian
North Arkansas Regional Medical Center	Harrison	Boone
Baptist Health Medical Center - Heber Springs	Heber Springs	Cleburne
Helena Regional Medical Center	Helena	Phillips
National Park Medical Center	Hot Springs	Garland
CHI St. Vincent	Hot Springs	Garland
Wadley Regional Medical Center at Hope	Hope	Hempstead
North Metro Medical Center	Jacksonville	Pulaski
NEA Jonesboro	Jonesboro	Craighead
St. Bernard's Hospital	Jonesboro	Craighead
Chicot Memorial Medical Center	Lake Village	Chicot
Baptist Health Medical Center - Hot Spring County	Malvern	Hot Spring
Magnolia Regional Medical Center	Magnolia	Columbia
McGehee Desha County Hospital	McGehee	Desha
Mena Regional Medical Center	Mena	Polk
Drew Memorial Hospital	Monticello	Drew
Baxter Regional Medical Center	Mountain Home	Baxter
Stone County Medical Center	Mountain View	Stone
Howard Memorial Hospital	Nashville	Howard
Unity Health - Harris Hospital	Newport	Jackson
Baptist Health North Little Rock	North Little Rock	Pulaski
South Mississippi County Regional Hospital	Osceola	Mississippi
Arkansas Methodist Medical Center	Paragould	Greene
Piggott Community Hospital	Piggott	Clay
Jefferson Regional Medical Center	Pine Bluff	Jefferson
Five Rivers Medical Center	Pocahontas	Randolph
St. Mary's Regional Medical Center	Russellville	Pope
Fulton County Hospital	Salem	Fulton
Unity Health - White County Medical Center	Searcy	White
Northwest Medical Center	Springdale	Washington
Baptist Health Medical Center - Stuttgart	Stuttgart	Arkansas
Lawrence Memorial Hospital	Walnut Ridge	Lawrence
Bradley County Medical Center	Warren	Bradley
CrossRidge Community Hospital	Wynne	Cross

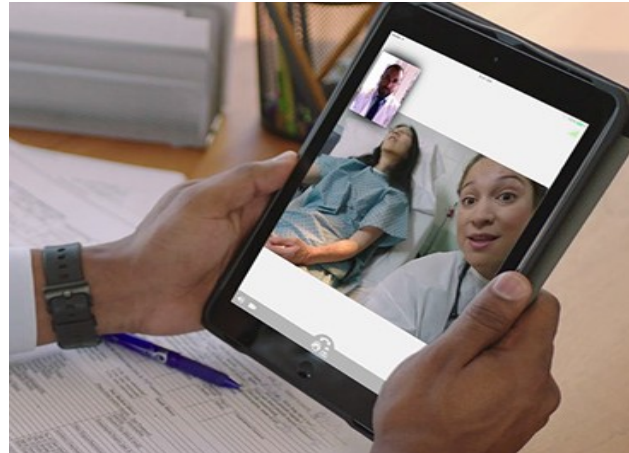


Trauma Hand and Burn Telemedicine



Additional Statewide Telemedicine Programs

- ▶ Cardiology Clinic – Baptist, St. Bernard’s and UAMS
- ▶ Chronic Care management- Baptist
- ▶ Neurology Clinic
- ▶ Emergency Medicine Consults
- ▶ DM Retinal Screening
- ▶ Geriatrics
- ▶ Traumatic Brain Injury
- ▶ Baptist eICU
- ▶ Pre and post operative visits
- ▶ School based health clinics
- ▶ Primary care to patients home
- ▶ Prisons and Jails
- ▶ Direct to Consumer

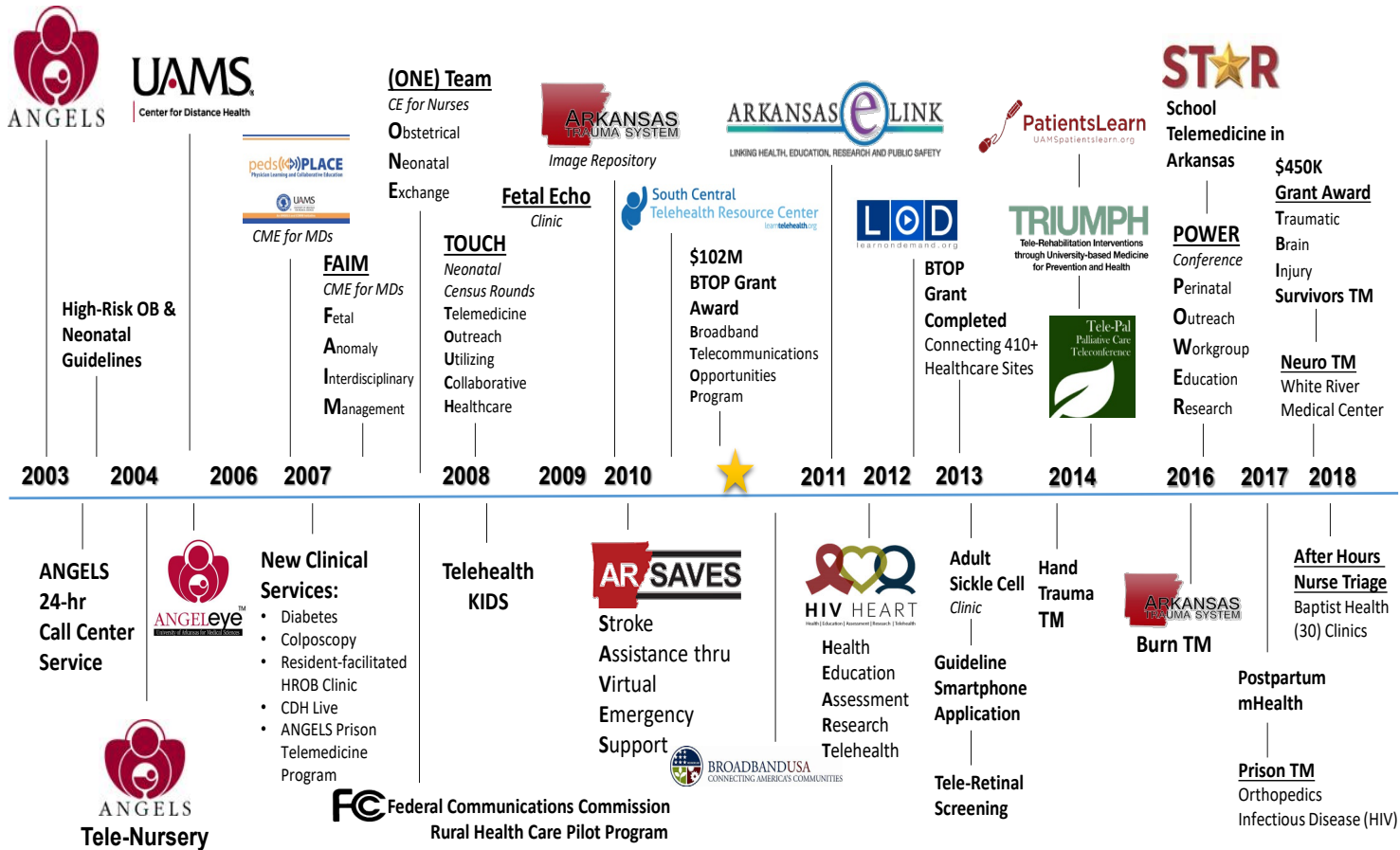


Telemedicine Reimbursement

- ▶ Parity provisions for reimbursement of telemedicine-provided physician services
 - ▶ Patients stay local
 - ▶ Rural community retains revenue
 - ▶ Reimbursement by
 - ▶ Private health insurance carriers
 - ▶ Medicare
 - ▶ Medicaid



Evolution of UAMS Telehealth Programs (2003-2018)



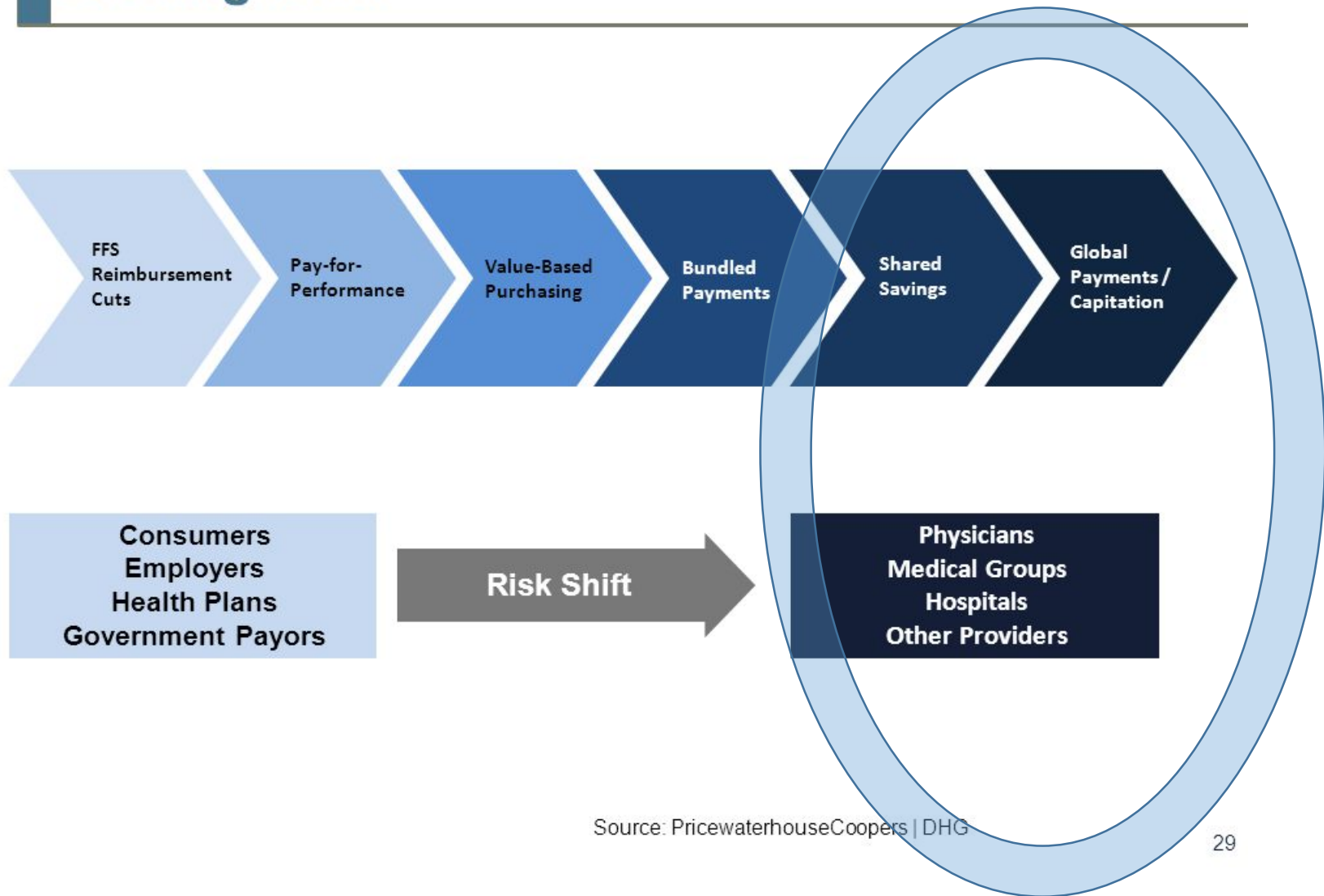
Great Change

Increase production

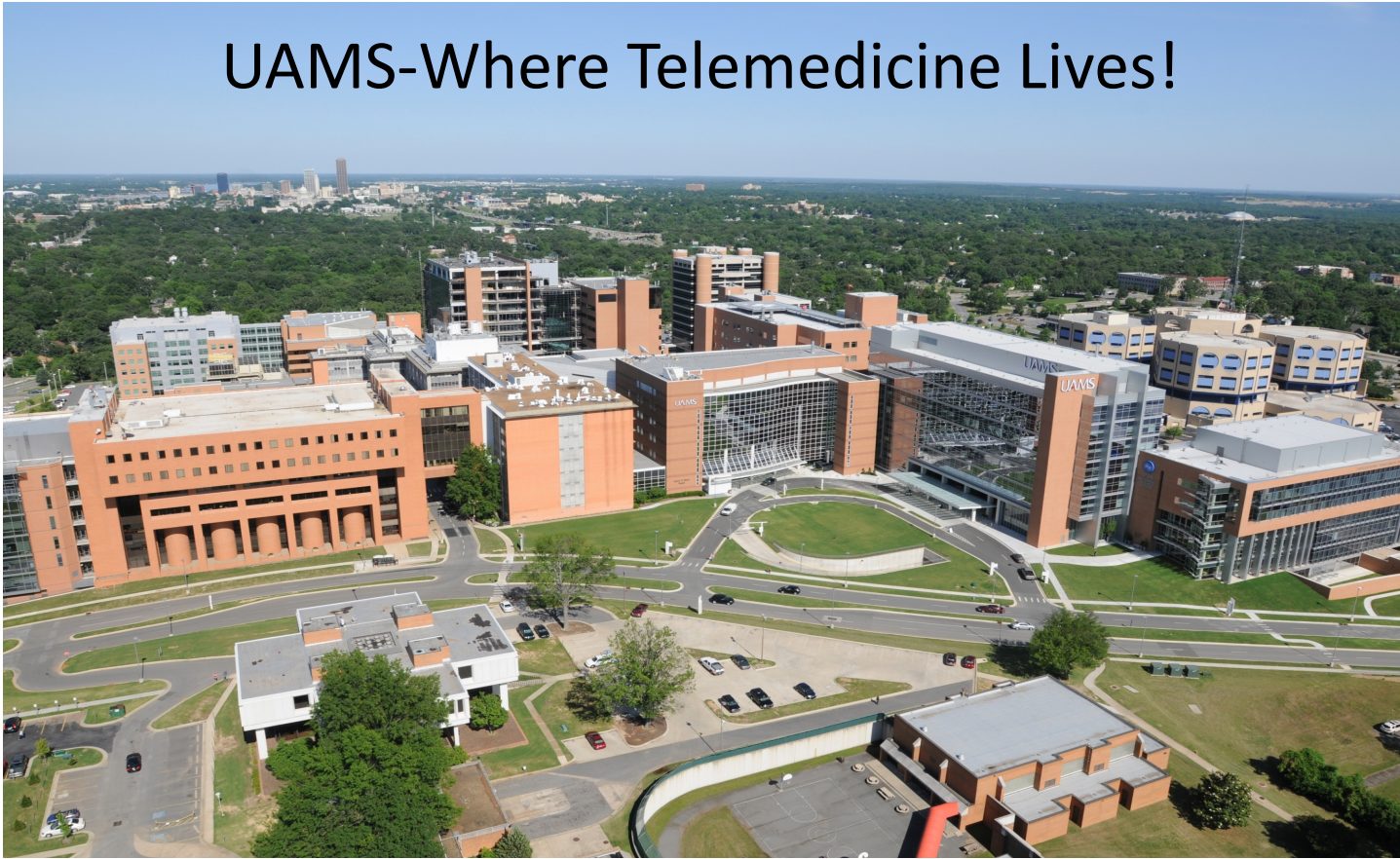
Cut production costs

Improve safety

Shifting Risk



UAMS-Where Telemedicine Lives!



To learn more about the UAMS programs and telehealth, please go to the following link, click on Request Information, fill out the form and submit.

[Arkansas eLink](#)

Roy Kitchen
UAMS Center for Distance Health
Arkansas e-Link Network Director

Curtis Lowery, MD
Chair, OB/GYN-MFM
Founder & Director, ANGELS & Center for Distance Health
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BroadbandUSA

Thank you for attending.

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**Measuring the Digital Divide:
Review of Recent Surveys and Data
January 16, 2019
2:00 pm EST**

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<https://broadbandusa.ntia.doc.gov/event>

BroadbandUSA is available to help communities with their broadband access and digital inclusion efforts

For General Information:



202-482-2048



broadbandusa@ntia.doc.gov



<https://broadbandusa.ntia.doc.gov/resources>

To Request Technical Assistance (TA):



Broadband TA Request Form -
<https://broadbandusa.ntia.doc.gov/ntia-common-content/how-we-can-help>

BBUSA Resources

- [Implementing a Broadband Network Vision: A Toolkit for Local and Tribal Governments](#)
- [Community Broadband Roadmap Toolkit](#)
- [Guide to Federal Funding of Broadband Projects](#)
- [Using Partnerships to Power Smart Cities](#)