



# CAST Resources Available to Help Member Thrive

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*LeadingAge*<sup>™</sup> **CAST**  
center for aging services technologies

# Models & Enabling Technologies

## Integrated/ Coordinated Health Care

- + Interoperable EHRs & HIE
- + Remote Monitoring/  
Telehealth
- + Care coordination tools

## Community-Based Support Services

- + Interoperable EHRs & HIE
- + Remote Monitoring/  
Telehealth
- + Care coordination tools

- + Remote monitoring and  
assistive devices
- + Wellness & quality of life

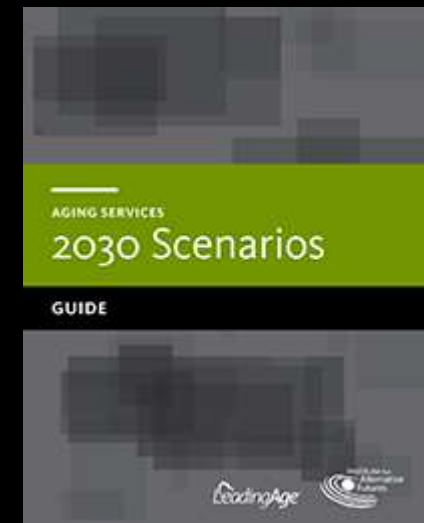
## Real Estate Based

- + Interoperable EHRs & HIE
- + Remote Monitoring/  
Telehealth
- + Care coordination tools

- + Remote monitoring and  
assistive devices
- + Wellness & quality of life
- + Facility management

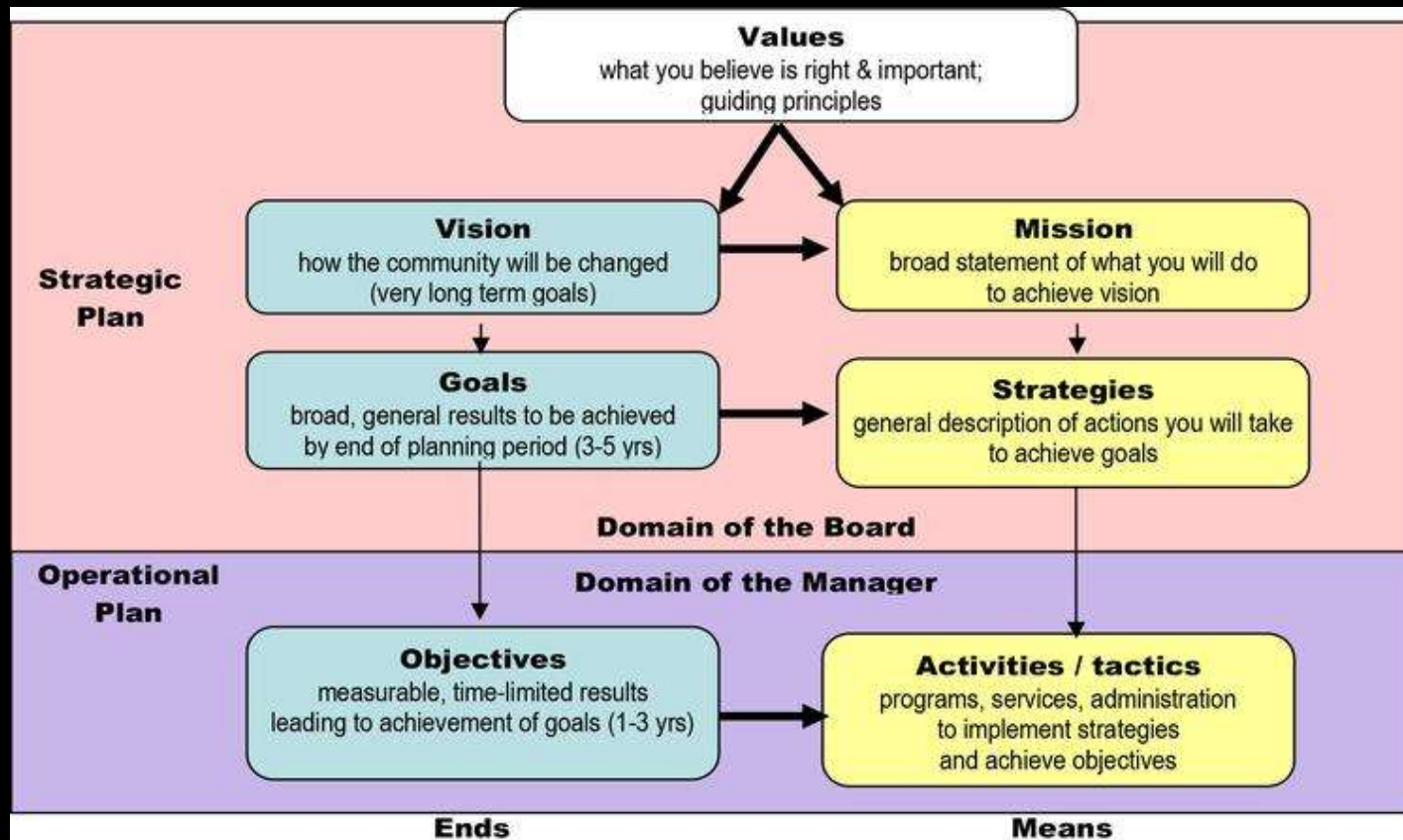
[http://www.leadingage.org/sites/default/files/CAST\\_Scenario\\_Planning.pdf](http://www.leadingage.org/sites/default/files/CAST_Scenario_Planning.pdf)

# LeadingAge 2030 Scenarios



<http://www.leadingage.org/2030-aging-services-scenarios-documents>

# CAST Strategic Planning & Strategic IT Planning Workbook



<http://www.leadingage.org/strategic-it-planning-tools>

# CAST Technology Selection Tools



EHR



Telehealth/RPM



Medication Management



Functional Assessment



Shared Care Planning & Coordination



Social Connectedness & Engagement

<http://leadingage.org/technology-selection-tools>

# CAST Cybersecurity Resources

- Whitepaper
- Benchmarking Questionnaire
- Provider Case Studies

<http://www.leadingage.org/cybersecurity-resources>

Cybersecurity White Paper

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# Provider Case Studies

## Lessons Learned While Preparing for the Future:

*Revisiting the Accomplishments of Technology Pioneers in the Field of Aging Services*

AN UPDATE TO 13 CASE STUDIES  
FROM PIONEERS IN THE FIELD  
June 2015

CASE  
STUDY

## Strategic IT Planning Provider Case Studies 2015

CASE  
STUDY



REDUCING THE USE OF PSYCHOTROPIC DRUGS  
AND IMPROVING QUALITY OF LIFE THROUGH  
ENTERTAINING TECHNOLOGY-DRIVEN ACTIVITIES



Contributor:  
**Josh Hansen**  
Technology Director

Category  
Functional/ Behavioral/ Health Outcomes  
Cost of Care to Payers  
Quality of Life/Satisfaction with Care

Organization Name  
Western Home Communities

Organization Type  
Continuing Care Retirement Community

**Other Partners**  
It's Never 2 Late (iN2L) provides a variety of adaptive and engagement computer hardware experiences for individuals living in senior living communities. Their solutions can benefit all residents throughout the continuum of care, but their particular focus is on older adults with physical and cognitive disabilities. Their systems are primarily well suited for delivering dementia engagement programming, as well as innovative therapy interventions. They have systems in approximately 2,000 communities, across the United States and four (4) countries, serving thousands of older adults each and every day. They are a Colorado based LLC and have been in business since 1999.

Updated Business  
Case Studies

Initiative Case  
Studies

CAST Patron/  
Supporter Case  
Studies

<http://www.leadingage.org/members/cast-business-case-studies>

<http://www.leadingage.org/strategic-it-planning-case-studies>

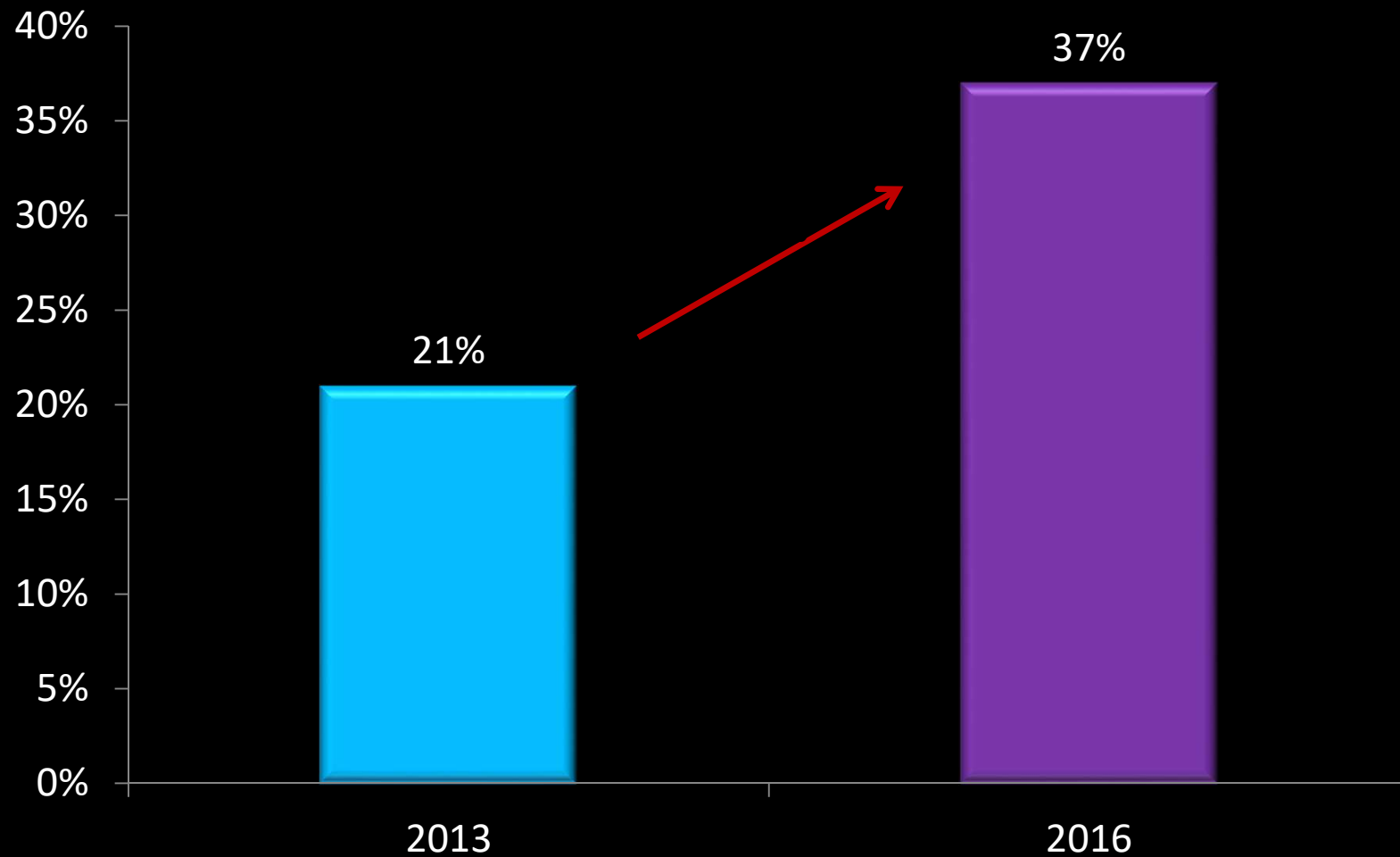
<http://www.leadingage.org/cast/case-studies/cast-supporter-and-patron-case-studies>

A close-up photograph of a white Ziegler-CAST machine. The machine has a digital display on the right side showing the number '0.0000'. Below the display is a sample cup. The machine is set against a dark brown background.

# Ziegler-CAST Technology Adoption Survey

# Chief Technology/Information Officers

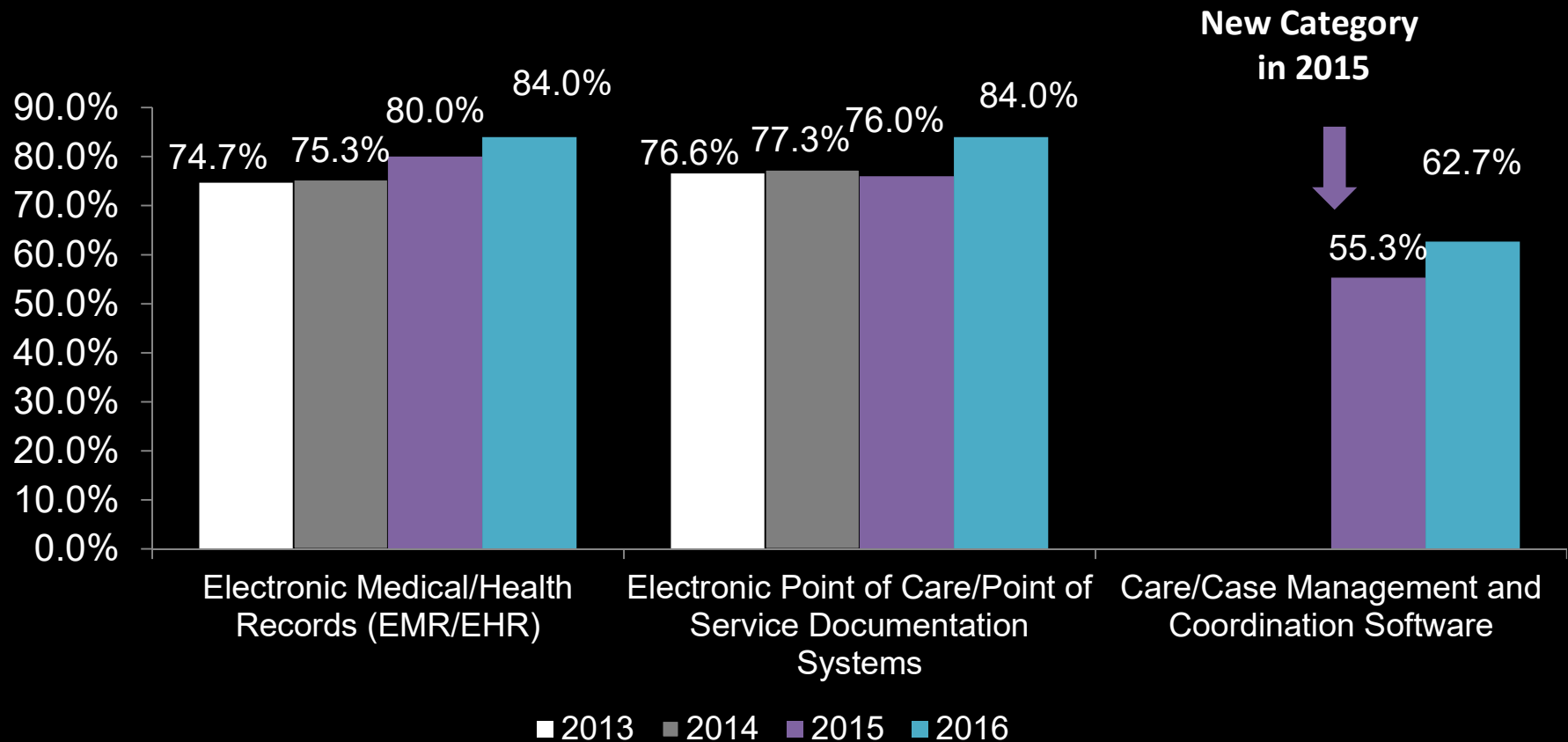
## Percent of "LZ 150" with a CIO/CTO



# LZ-150 Technology Adoption-I

## 2017 LeadingAge Ziegler 150

PERCENTAGE OF LZ 150 COMMUNITIES/OPERATIONS USING ELECTRONIC DOCUMENTATION TECHNOLOGIES



<http://www.leadingage.org/press-release/technology%E2%80%99s-strategic-role-and-adoption-are-rise-among-largest-nonprofit-providers>

# CAST's 7-Stage EHR Adoption Model

Stage  
**7**

Interoperability & Health Information Exchange

Stage  
**6**

Engagement & Basic Information Exchange

Stage  
**5**

External Ancillary Services Integration

Stage  
**4**

Advanced EHR (Internal Quality-Focused)

Stage  
**3**

Ancillary & Clinical Administration (Non-Integrated)

Stage  
**2**

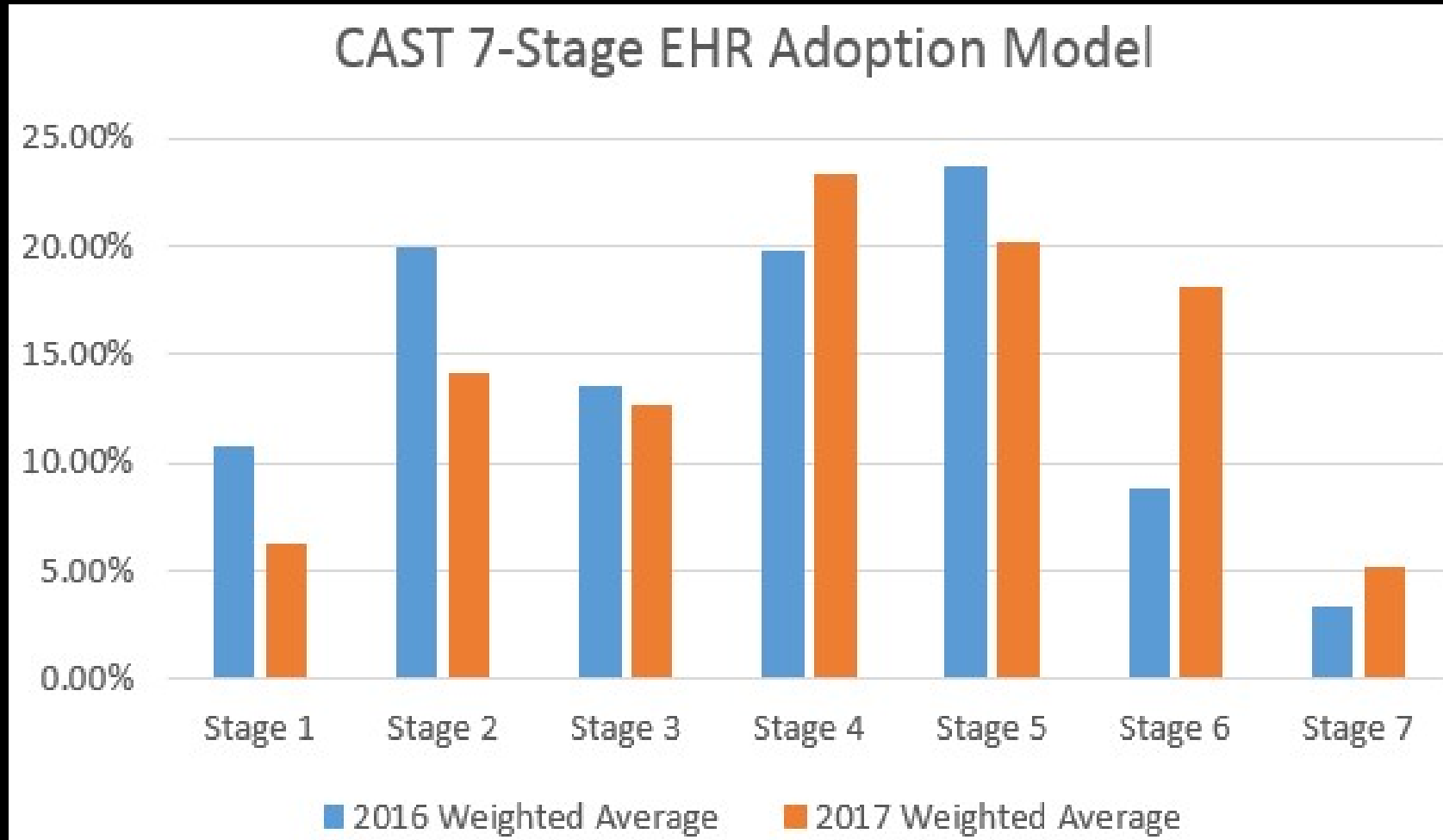
Basic EHR

Stage  
**1**

Basic Information System

- ✓ Developed a model amenable to be applied across multiple LTPAC settings
- ✓ Create a framework to assess the level of EHR adoption and sophistication of use
- ✓ Support post acute providers on their technology focused initiatives towards better health outcomes

# LTPAC Sector According to Vendors



# LZ-150 EHR Adoption by Stages

N = 117

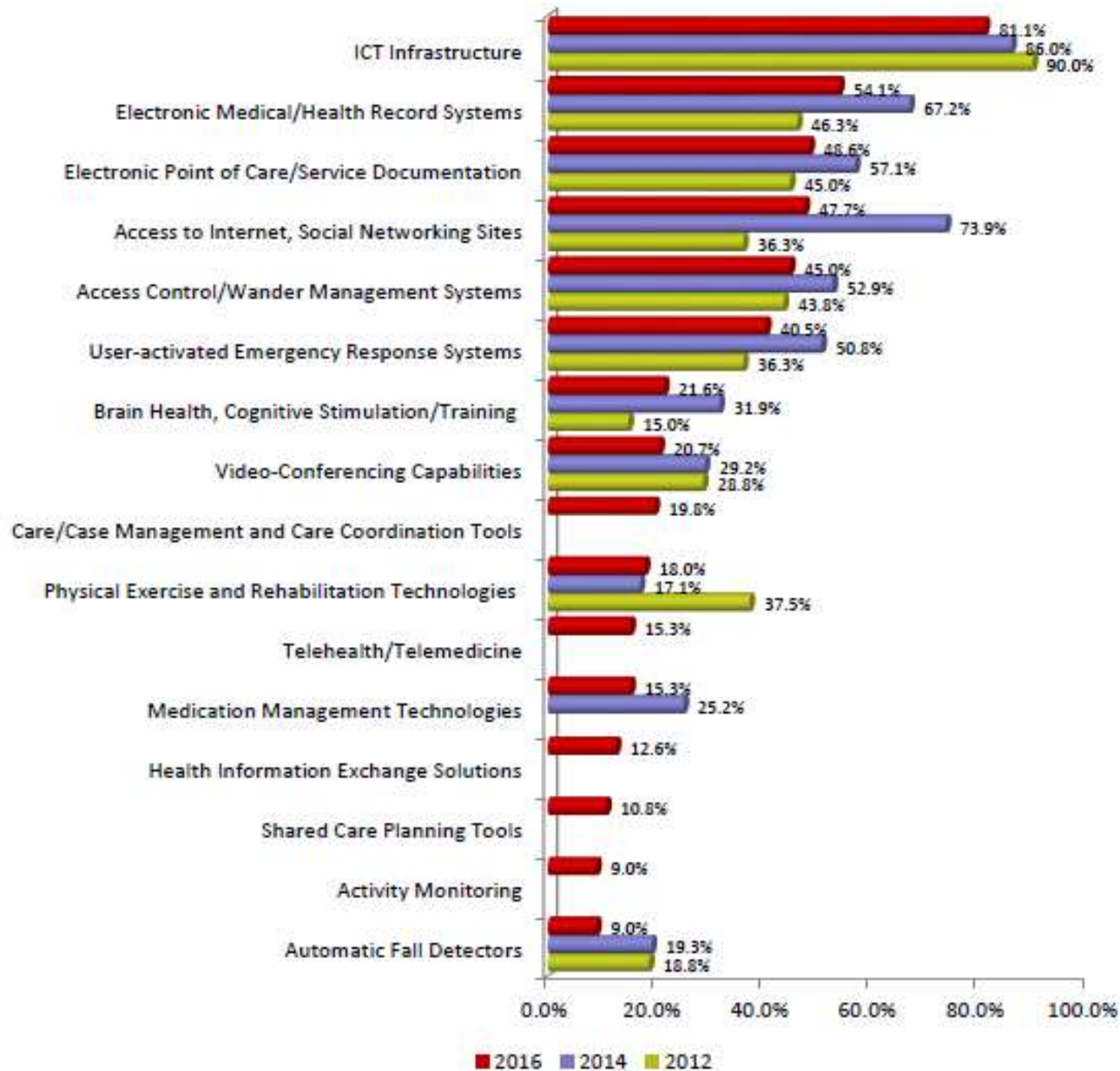
Stage	Respondents	Percentage of Providers at each Stage
Stage 1	2	1.7%
Stage 2	3	2.6%
Stage 3	18	15.4%
Stage 4	26	22.2%
Stage 5	33	28.2%
Stage 6	21	17.9%
Stage 7	14	12.0%

<https://www.leadingage.org/press-release/larger-nonprofit-senior-living-organizations-leading-way-ehr-adoption-and>



# Ziegler-CAST Technology Spending Surveys

## Investments in Technologies in Past 12 Months



# Technology Spending Categories

# Percent Technology Spending

	Percentage of total <u>Capital</u> Budget devoted to technologies		Percentage of total <u>Operating</u> Budget devoted to technologies	
	<u>2016</u>	<u>2014</u>	<u>2016</u>	<u>2014</u>
Average percent ( <i>TOTAL</i> )	11.8%	12.2%	2.5%	2.7%
Median percent ( <i>TOTAL</i> )	7.0%	9.5%	2.0%	2.0%
Average percent ( <i>Single-sites</i> )	11.7%	12.1%	2.4%	2.5%
Median percent ( <i>Single-sites</i> )	7.0%	10.0%	2.0%	2.0%
Average percent ( <i>Multi-sites</i> )	11.8%	12.2%	2.6%	2.9%
Median percent ( <i>Multi-sites</i> )	7.0%	8.0%	2.0%	2.0%

	Percentage of total <u>Capital</u> Budget devoted to campus/building/facilities		Percentage of total <u>Operating</u> Budget devoted to campus/building/facilities	
	<u>2016*</u>	<u>2014</u>	<u>2016*</u>	<u>2014</u>
Average percent ( <i>TOTAL</i> )	6.9%	13.4%	2.1%	3.8%

	Percentage of total <u>Capital</u> Budget devoted to technologies for HCBS		Percentage of total <u>Operating</u> Budget devoted to technologies for HCBS	
	<u>2016</u>	<u>2014</u>	<u>2016</u>	<u>2014</u>
Average percent ( <i>TOTAL</i> )	2.4%	1.6%	1.5%	1.2%

<https://www.leadingage.org/cast/ziegler-cfo-and-cast-track-top-tech-spending-2016>

# The Eco-System

*High-Tech Aging Improving Lives Today!*



<http://www.leadingage.org/cast/resources/high-tech-aging-improving-lives-today>

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# Register for the Next CAST Event!

Long Term and Post Acute Care

**LTPAC HIT**

## LTPAC Health IT Summit

Washington Hilton Hotel, June 24-26, 2018

[LeadingAge.org/ltpac-healthit-summit](http://LeadingAge.org/ltpac-healthit-summit)

Use the Discount Code **LA\_CAST18** to get \$100 off Registration

<http://www.leadingage.org/ltpac-hit-summit>

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# Additional CAST Resources

- CAST/ Technology Listserv
  - [CAST@Lyris.LeadinAge.org](mailto:CAST@Lyris.LeadinAge.org)
  - Archive: [lyris.leadinAge.org/read/?forum=cast](http://lyris.leadinAge.org/read/?forum=cast)
- Newsletter archive: <http://www.leadinAge.org/cast-tech-time-newsletter-archive>
  - Manage subscription on [My.LeadinAge.org](http://My.LeadinAge.org)
- CAST LinkedIn Technology Discussion Group (a sub-group of LeadingAge LinkedIn Group):  
<https://www.linkedin.com/groups/2301204>
- Created a list of Technology Professionals (Reception at **LeadingAge Annual Meetings**).

# The Ask/Offer!

- We encourage you to:
  - Subscribe to the CAST eNewsletter and CAST Listserv and actively participate in the CAST Listserv
  - Participate in the CAST LinkedIn Group and Engage, and
  - Utilize the CAST Tools and Resources
  - Use CAST resources as these are membership benefits available to you for free
  - CAST is at your service
  - Let us know how else we can help!

Thank You...  
&  
Questions?

[MAIwan@LeadingAge.org](mailto:MAIwan@LeadingAge.org)