## About Adam C. Powell, Ph.D.

#### Hats

- President, Payer+Provider Syndicate
- Adjunct of Health Informatics, Northeastern University
- Visiting Professor of Health IT, Indian School of Business

#### **Interests**

- Healthcare innovation
- Healthcare finance
- Health IT

#### **Education**

- Ph.D., The Wharton School, Health Care Management & Economics
- M.A., The Wharton School, Health Care Management & Economics
- S.B., MIT Sloan School of Management, Management Science
- S.B., MIT, Writing

#### **Media Appearances**











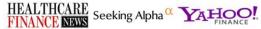


















The **financial impact** of a behavioral intervention is determined by its: **Efficacy Use Case / Marketing Design** 

## Key questions when assessing an intervention:





Who benefits, and how much?



When do the benefits arrive?

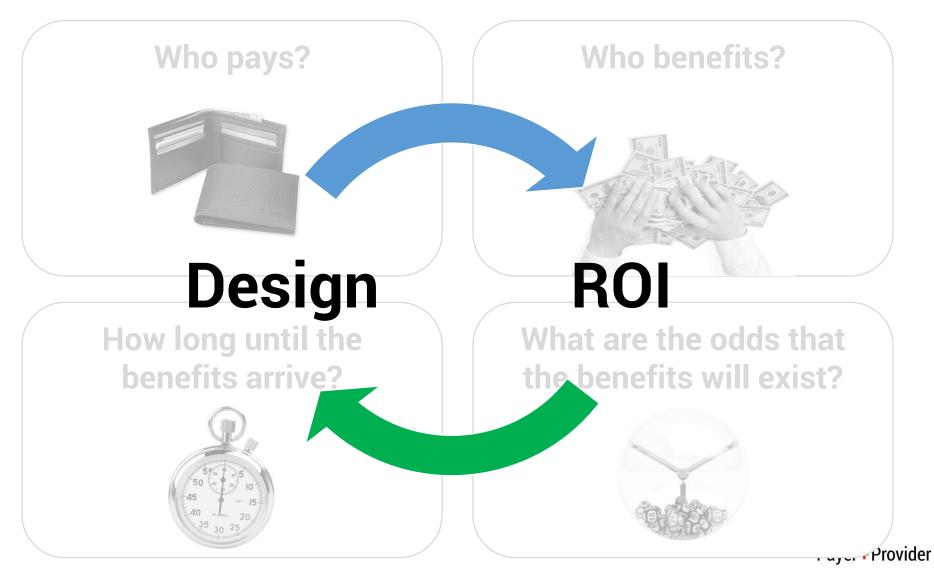


What are the odds that the benefits will exist?



Provider

# **Design shapes the ROI** of an intervention, but maximizing **ROI can also shape design**



## Which Fitbit has the **best ROI** for an employer?



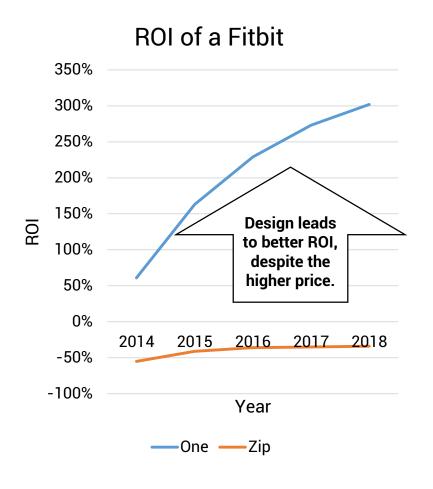


	FITBIT ONE	FITBIT ZIP
Price	\$99.95	\$59.95
Steps	Yes	Yes
Sleep	Yes	No
Silent Wake Alarm	Yes	No
Battery type	Rechargeable	Replaceable watch battery
Display type	OLED display	LCD display

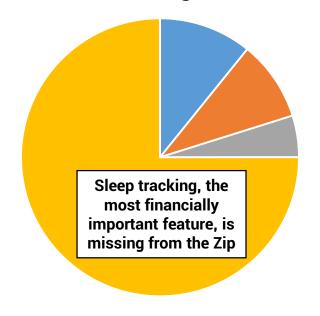
## Studies used to model the ROI:

- Bravata et al. 2007. "Using Pedometers to Increase Physical Activity and Improve Health." JAMA.
- Finkelstein et al. 2010. "The Costs of Obesity in the Workplace." JOEM.
- Flegal et al. 2012. "Prevalence of Obesity and Trends in the Distribution of Body Mass Index Among U.S. Adults, 1999-2010." JAMA.
- Richardson et al. 2009. "A Meta-Analysis of Pedometer-Based Walking Interventions and Weight Loss." Annals of Family Medicine.
- Rosekind et al. 2010. "The Cost of Poor Sleep: Workplace Productivity Loss and Associated Costs." JOEM
- Zoellner et al. 2010. "Does a Six-Month Pedometer Intervention Improve Physical Activity and Health Among Vulnerable African Americans?" Journal of Physical Activity and Health.

### The One has a positive ROI, but the cheaper Zip does not!



### Source of Savings from One



- Lower Health Care Expenditures from Weight Loss
- Lower Presenteeism from Weight Loss
- Lower Absenteeism from Weight Loss
- Savings from Better Sleep

# Two **small design decisions** had a **massive impact** on ROI





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## **Questions?**

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