# Scaling up: research to promote diffusion of successful models

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### **What We Will Cover**

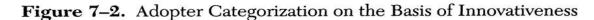
- NIH "Stage of Research" Model
- Principles of Innovation and Diffusion
- Costs and practical aspects of diffusion of dementia models
- Research recommendations

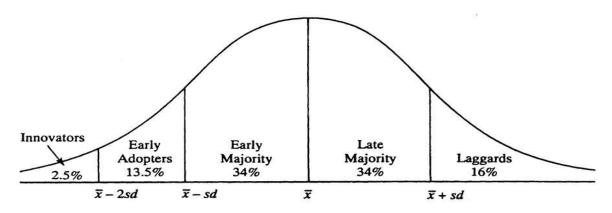
# NIH "Stages of Research" Model

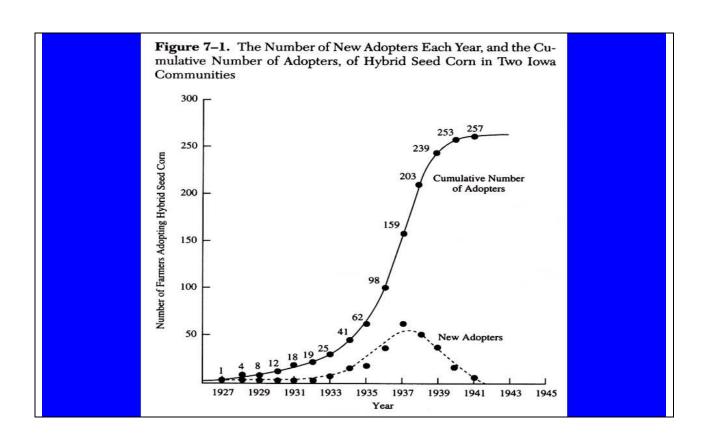
- Stage 0: Basic Research
- Stage I: Intervention Generation and/or Refinement
- Stage II: Efficacy in Research Settings
- Stage III: Efficacy in Community Settings
- Stage IV: Effectiveness
- Stage V: Implementation and Dissemination
  - Implementation and dissemination research examines strategies of implementation and adoption of empirically supported interventions in community settings

#### Innovation and Diffusion

- An <u>innovation</u> is an idea perceived as new by an individual or an organization
- <u>Diffusion</u> is the process by which
  - (1) an innovation
  - (2) is communicated through certain channels
  - (3) over time
  - (4) among the members of a social system
    - E. Rogers Diffusion of Innovation







#### **Innovation-Decision Process**

- Knowledge (mass communication)
- Persuasion (communication from peers)
- Decision
- Implementation
- Confirmation

# Characteristics of an Innovation that Influence the Decision to Adopt

- Relative advantage
- Compatibility
- Complexity
- Trialability
- Observability

#### **Costs and Revenues**

- Training costs
- Operations costs
  - Start up and maintenance
  - Fixed and variable
  - Labor, materials, subcontracts
- Opportunity costs
- Revenues
  - Managed care and Accountable Care Orgs
  - Fee-for-Service

#### Revenue: Fee for Service

- Medicare billing
  - Cognition and Functional Assessment (G0505)
    - \$190-\$260/per assessment)
  - Chronic Care Management (CCM) Codes
    - \$34-\$104/month
  - E & M Codes
    - \$71 for Level 4 Follow-up
- Enough? Probably not
  - Nurse practitioners receive 85% payment rate
  - Annual FFS revenue assuming: non-hospital setting, 1 G0505, 1/3 Complex and 2/3 standard CCM, 1 F/U E & M code=\$906/year

## Research Recommendations

- Creating business cases that are fair (CMS, health insurance, health care organizations)
  - Health care systems make a small profit
  - Insurers don't get taken for a ride
- How to influence adoption decisions (NIA Behavior and Social Sciences)
- Facilitation of spread across different markets (AHRQ, CMS, HRSA, VA, IHS)
  - What level of evidence is needed to "green light"?