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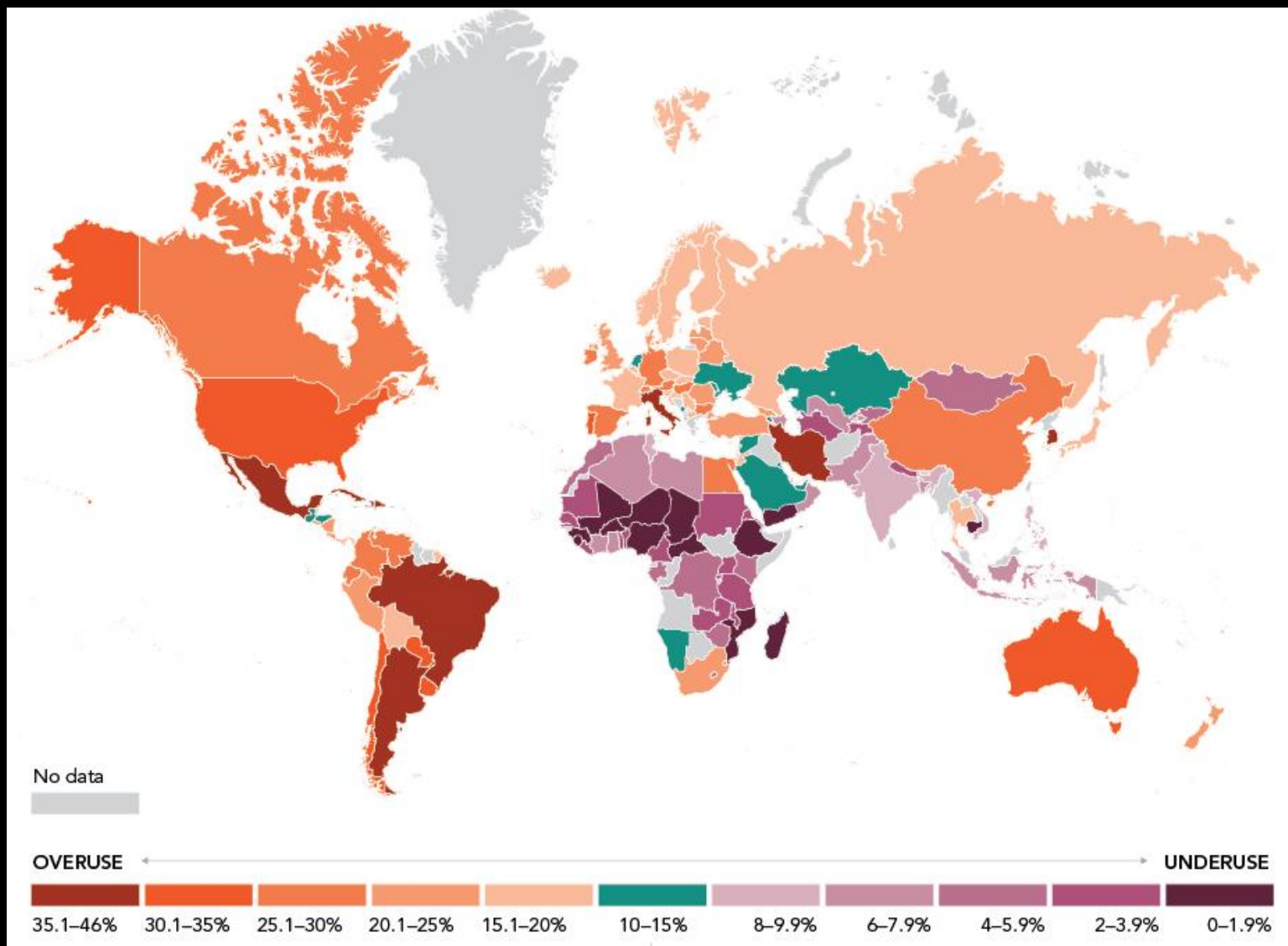
# Reducing Harmful Overuse of Cesarean Deliveries

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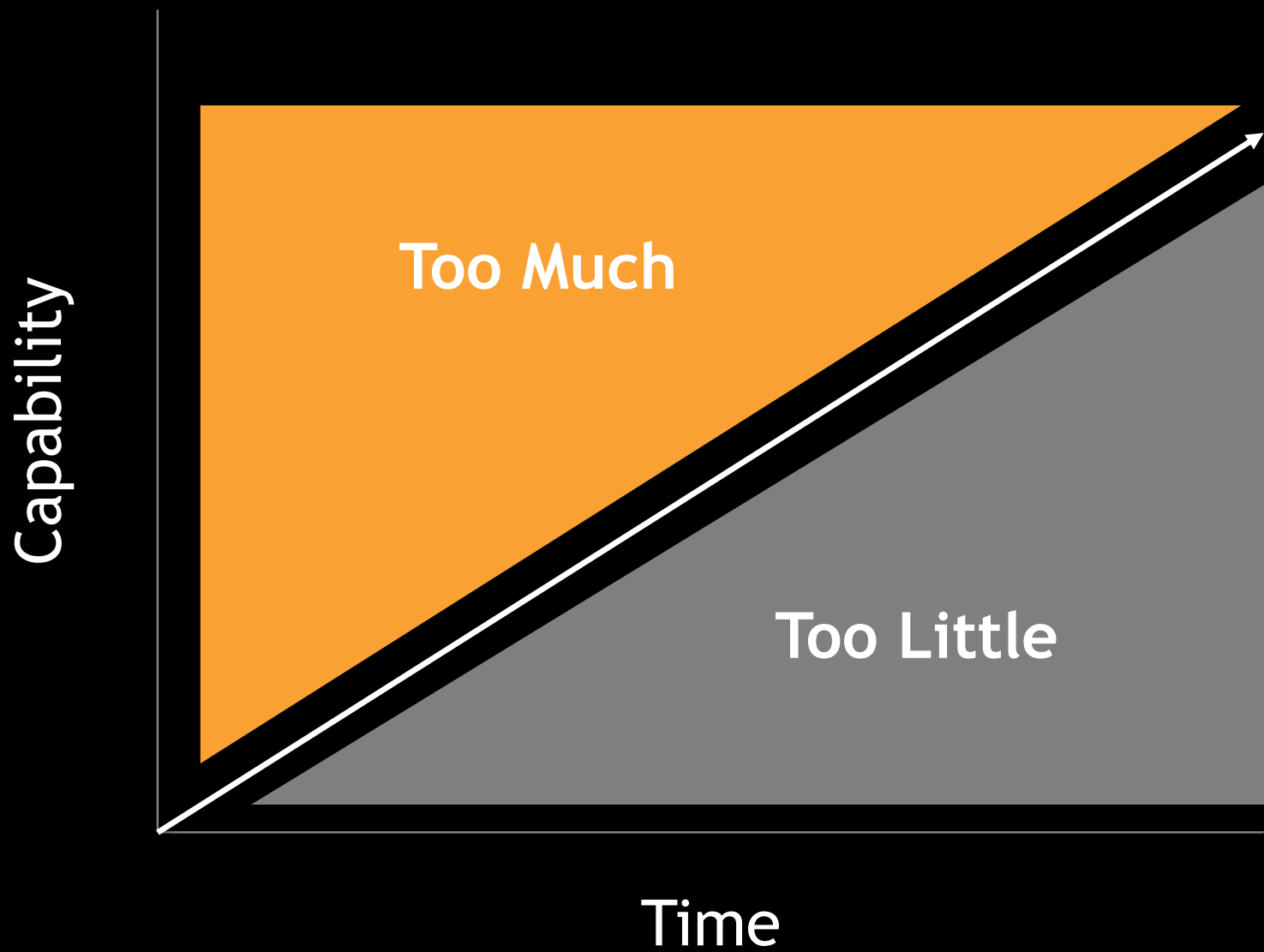
Neel Shah, MD, MPP



Beth Israel Deaconess  
Medical Center

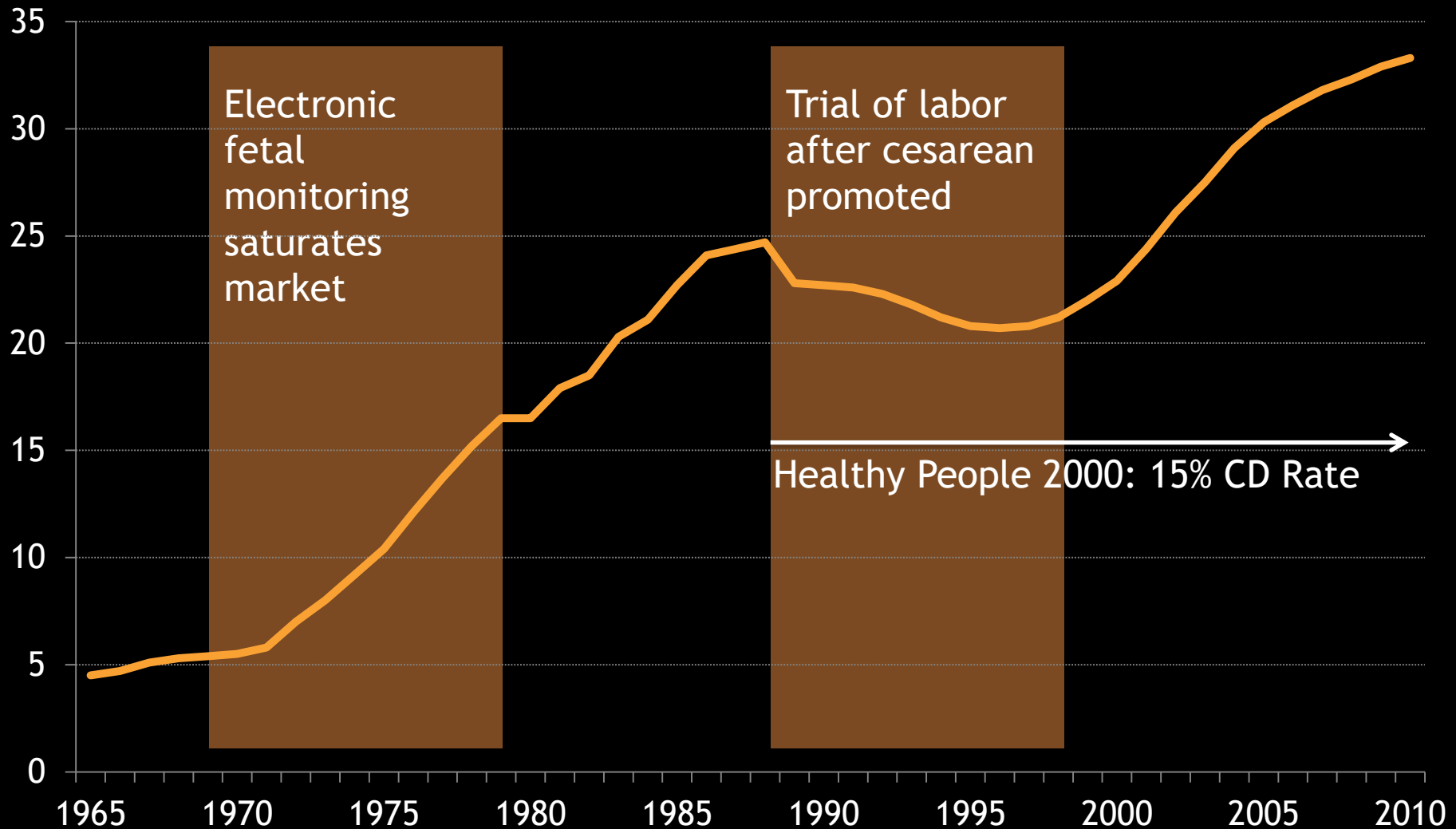




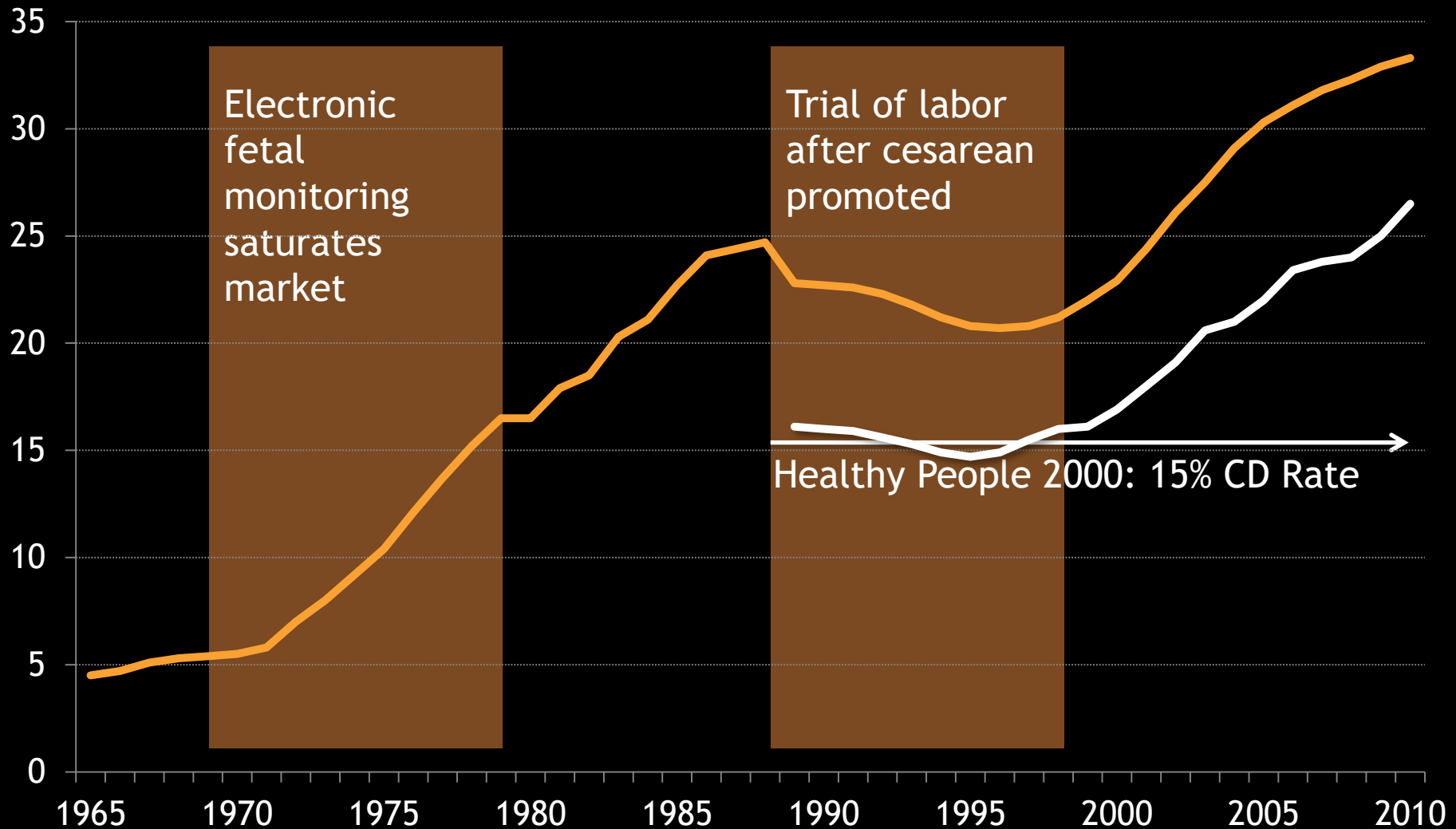




# United States Cesarean Delivery Rate (%)

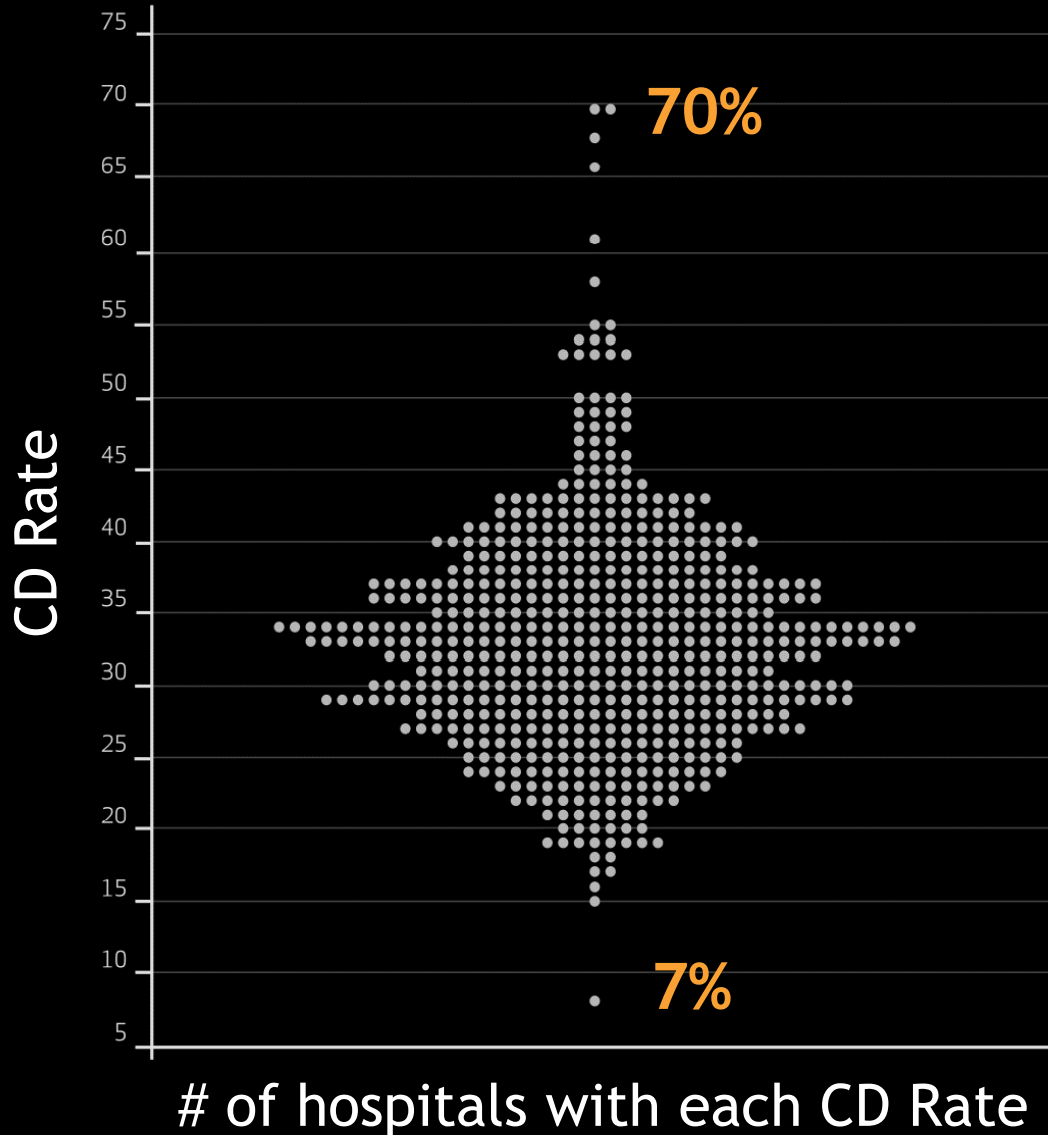


# United States Cesarean Delivery Rate (%)





# Cesarean Rates by Hospital Across the United States



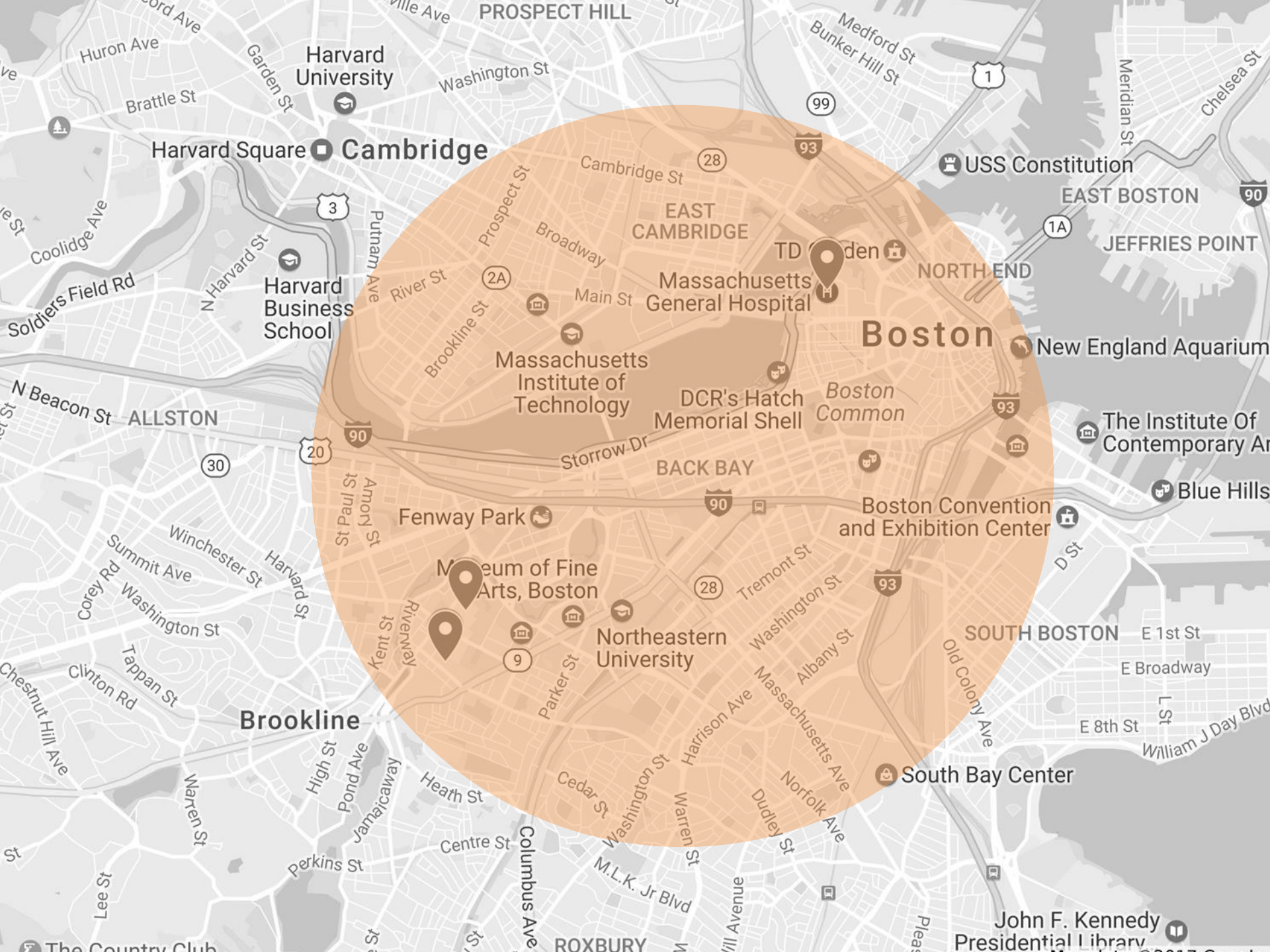
x 10



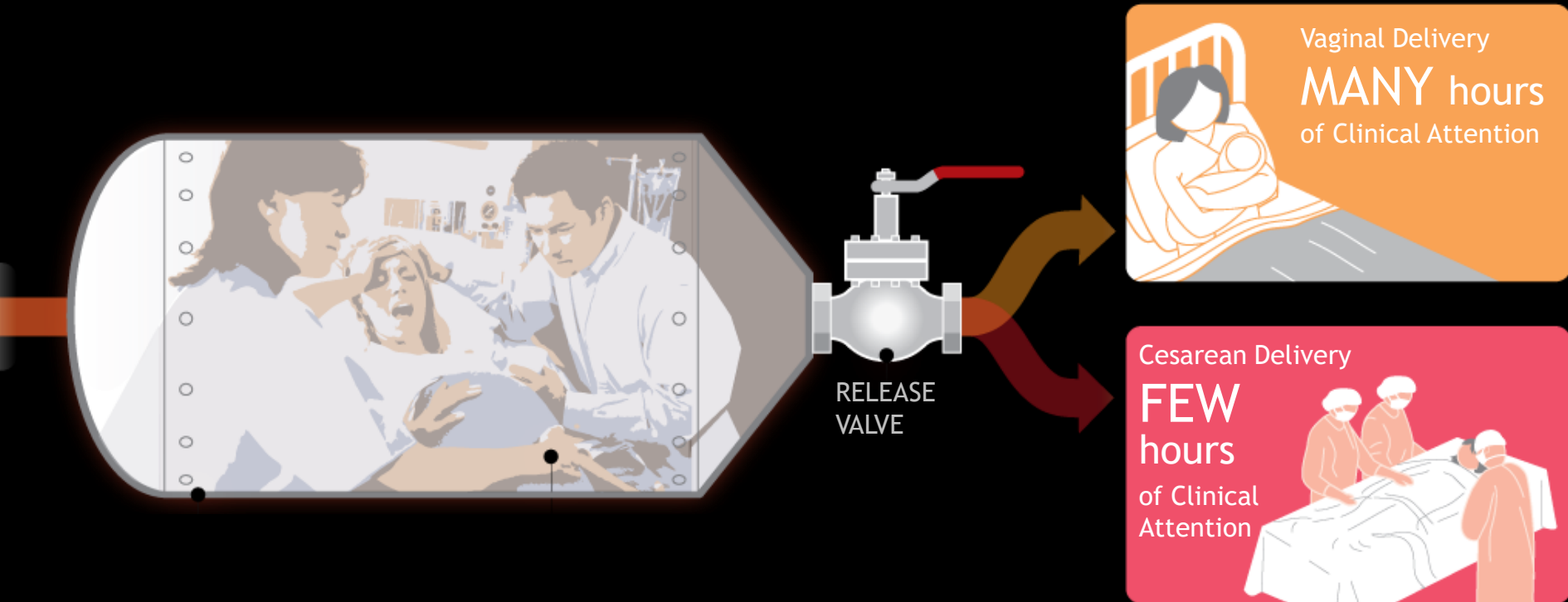
**The facility  
is a risk factor**





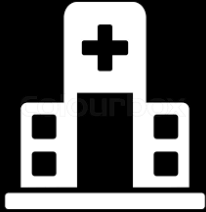


# Pressure Builds for a Delivery Decision



# Inputs:

## 53 Hospitals



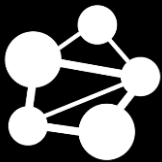
- Delivery Volume
- NICU Level
- Insurance Mix

## 220,000 Patients



- Age / Race
- Hypertension
- Diabetes

## 3 Management Areas



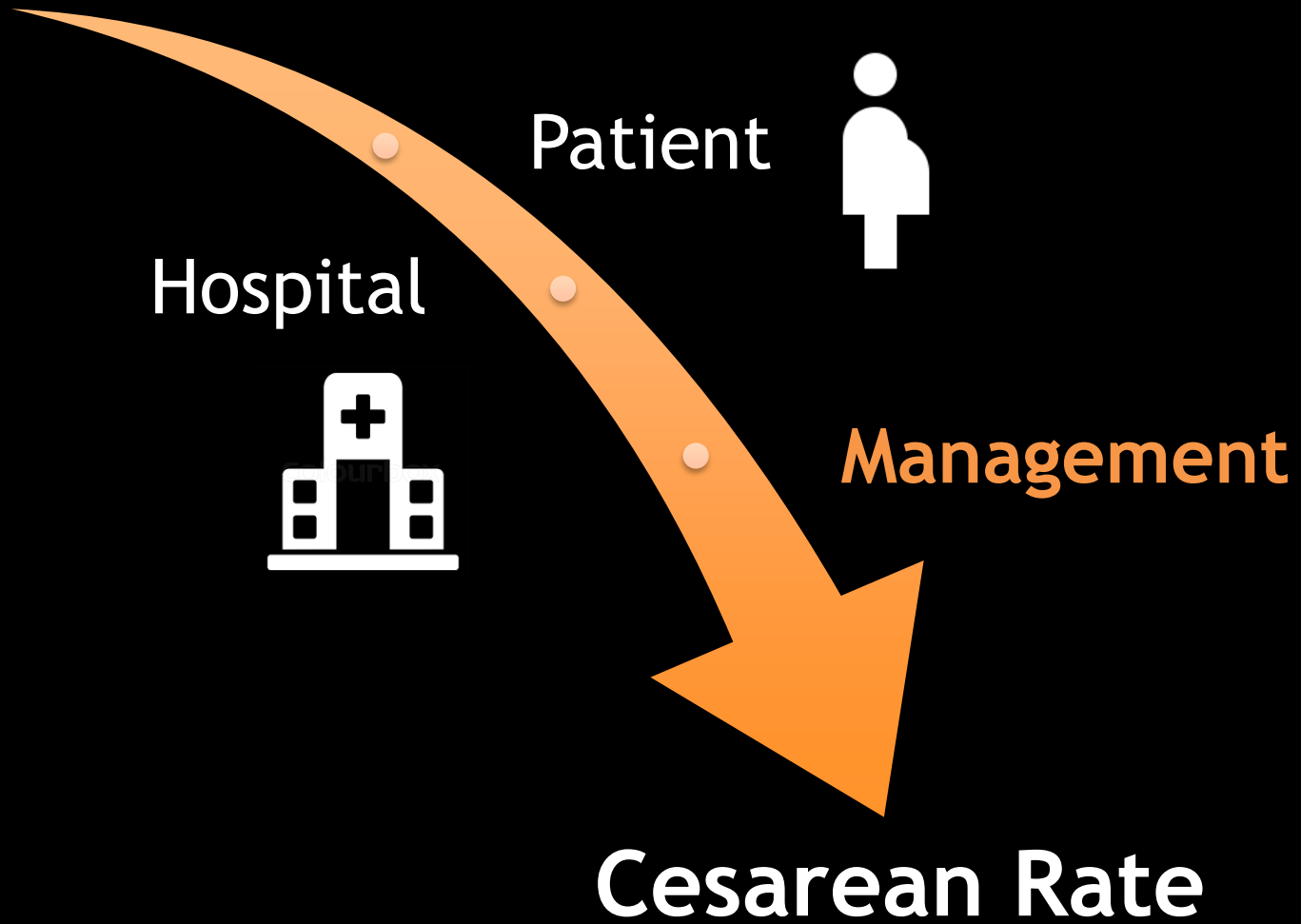
- Nursing
- Patient Flow
- Culture

# Outputs:

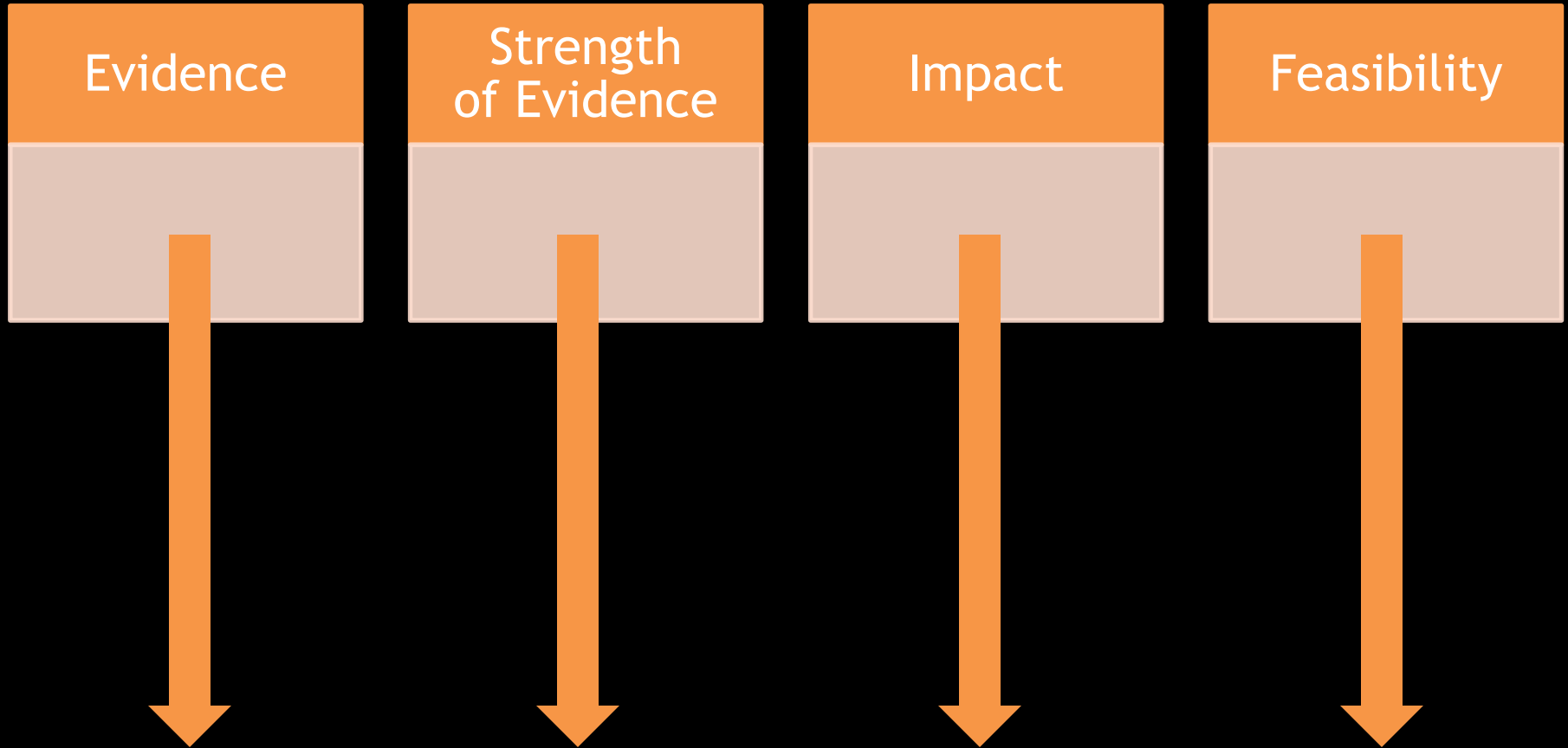
Cesarean Risk

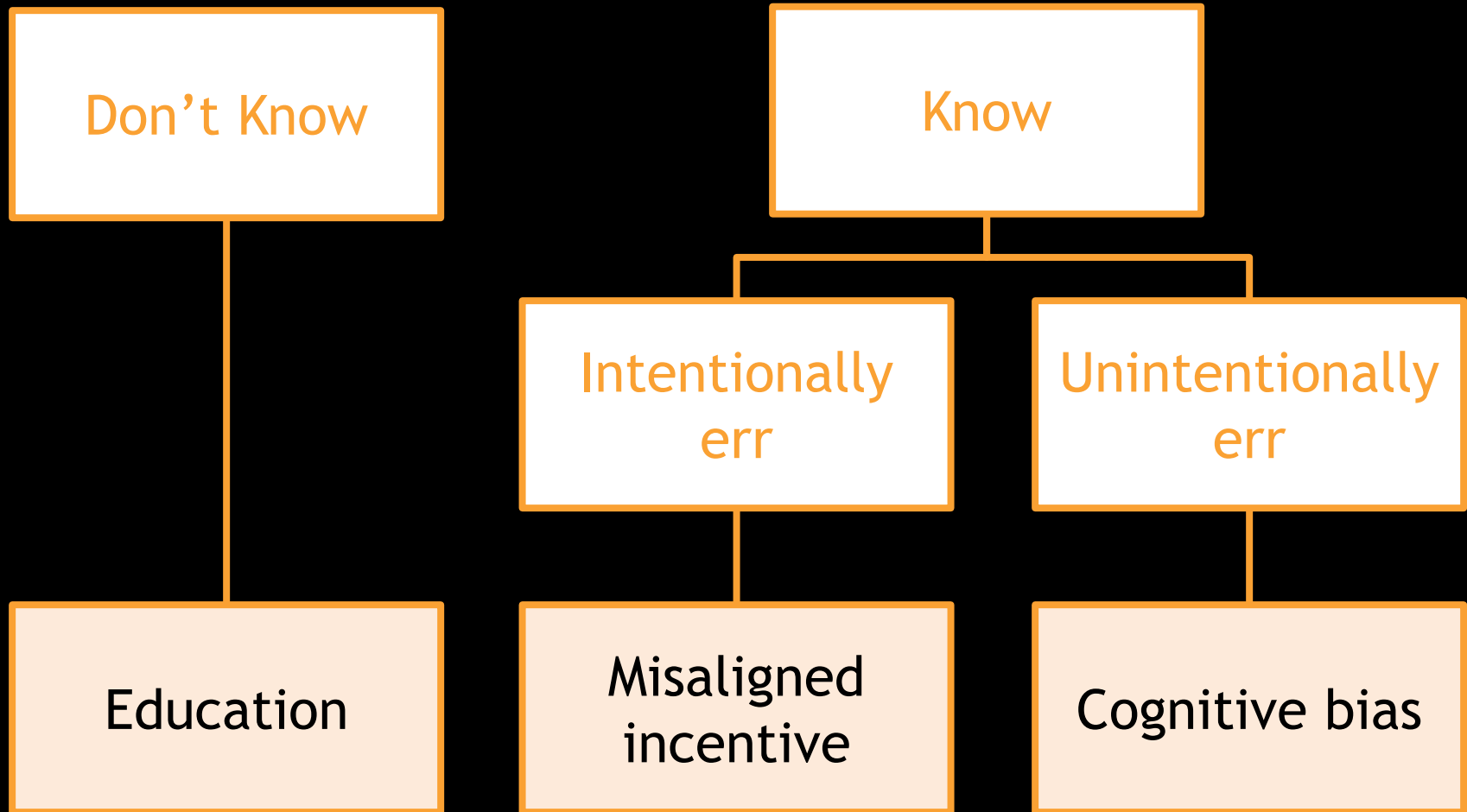
Morbidity Risk

Efficiency



# From Complexity to **SIMPLE SOLUTIONS**



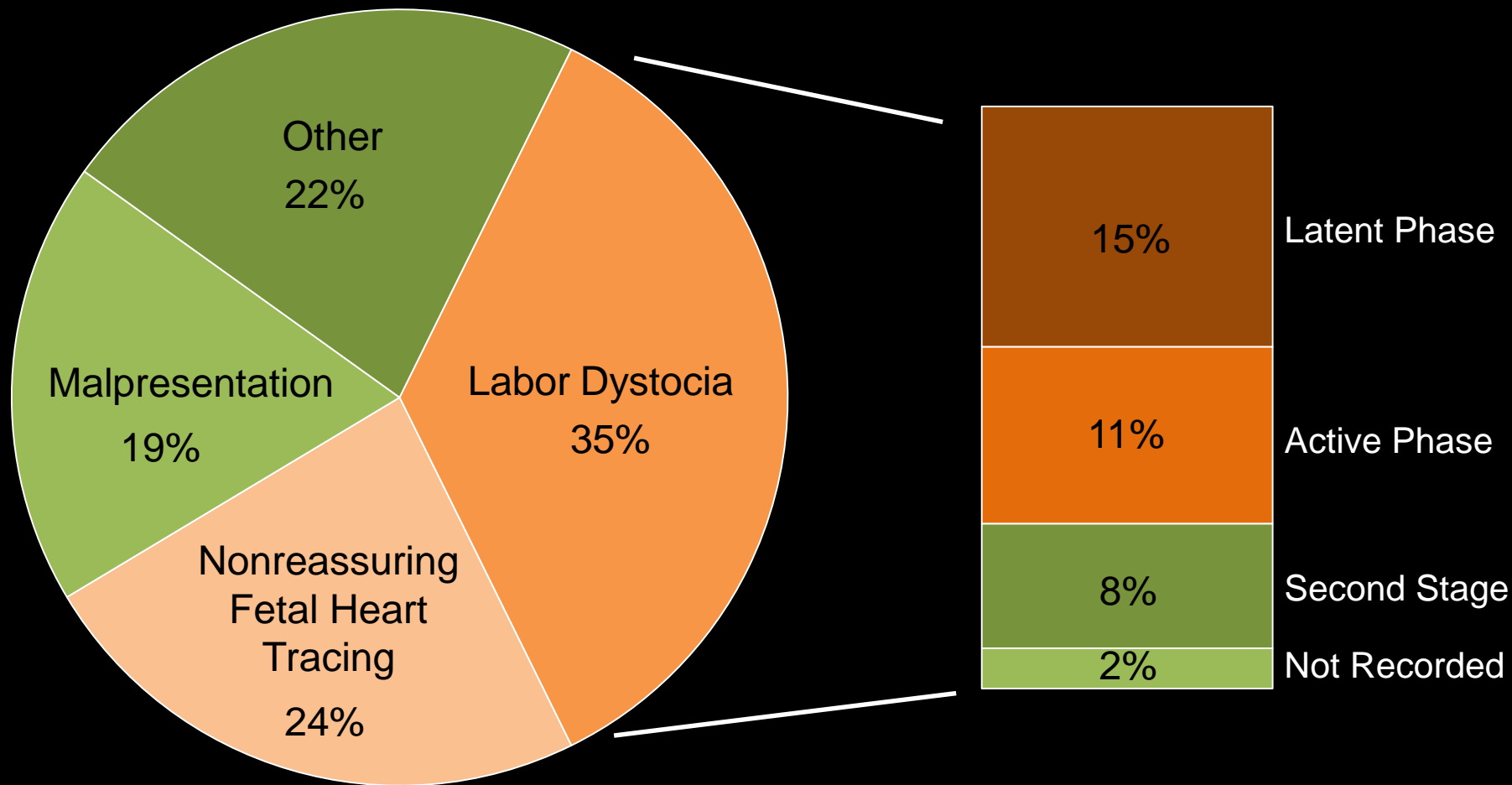


# Prioritization Logic

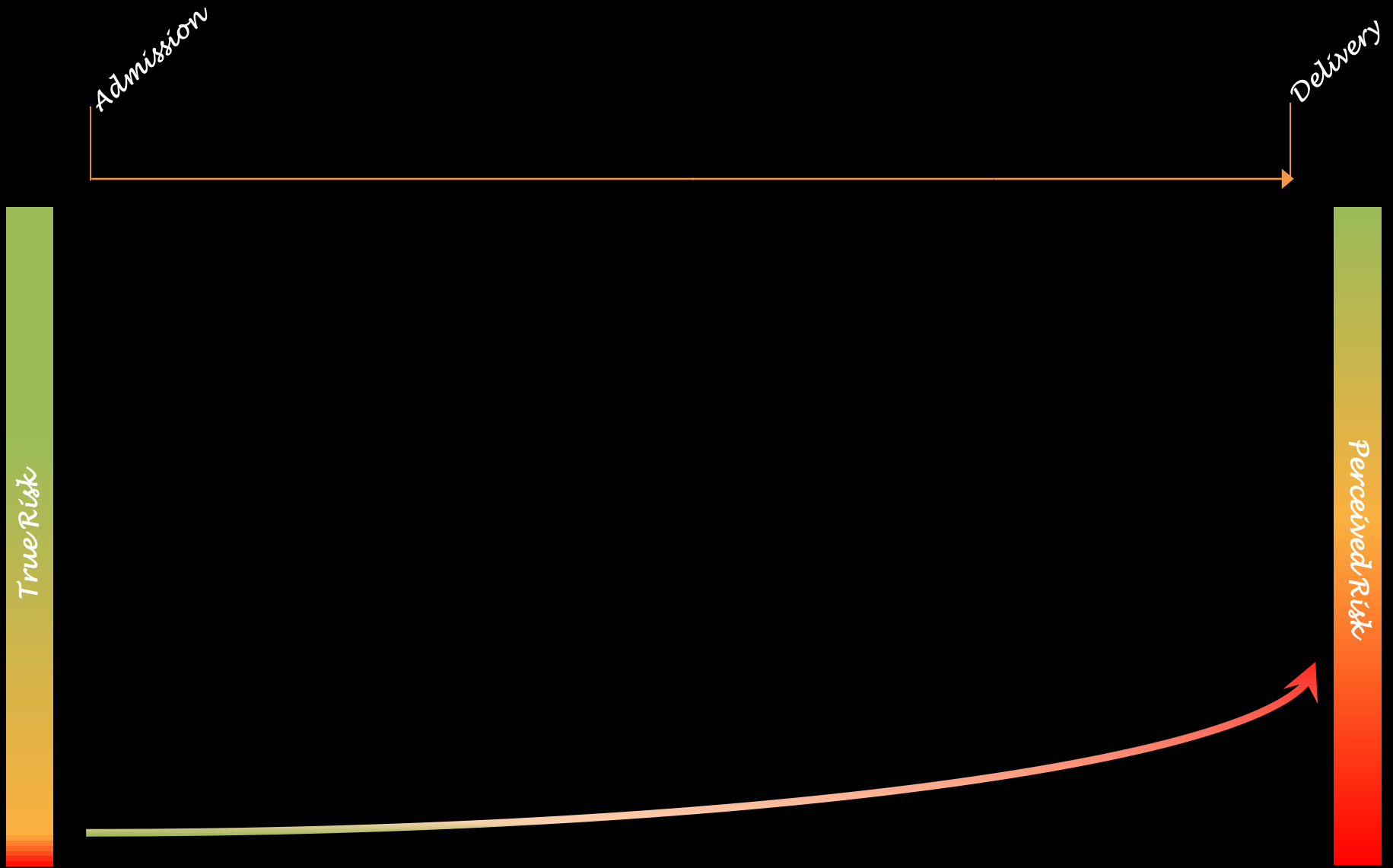
- 1) **EVIDENCE** - clear direction?
- 2) **IMPACT** - is there a large target and effect magnitude?
- 3) **SIMPLICITY** - can the strategy be translated into a solution that simplifies the decision options for end users?
- 4) **SCALABILITY** - how much does implementation depend on context?

Category	Strategy	1) Evidence	2) Impact	3) Simplicity	4) Scalability
Primary Strategies	Limiting Labor Dystocia Cesareans in the Latent Phase				
	Limiting Labor Dystocia Cesareans in the Active Phase				
	Limiting Labor Dystocia Cesareans in the Second Stage				
	Delaying Admission for Spontaneous Labor				
Excluded Strategies	Restricting Elective Deliveries <41 Weeks				
	Requiring a Second Opinion for Intrapartum Cesareans				
	Increasing Use of Operative Vaginal Deliveries				
	Increasing Use of ECVs for Breech Presentation				
Adjacent Strategies	Increasing Use of Intermittent Auscultation				
	Improving Category II Fetal Heart Tracing Interpretation				

# Indications for Primary Cesarean Deliveries



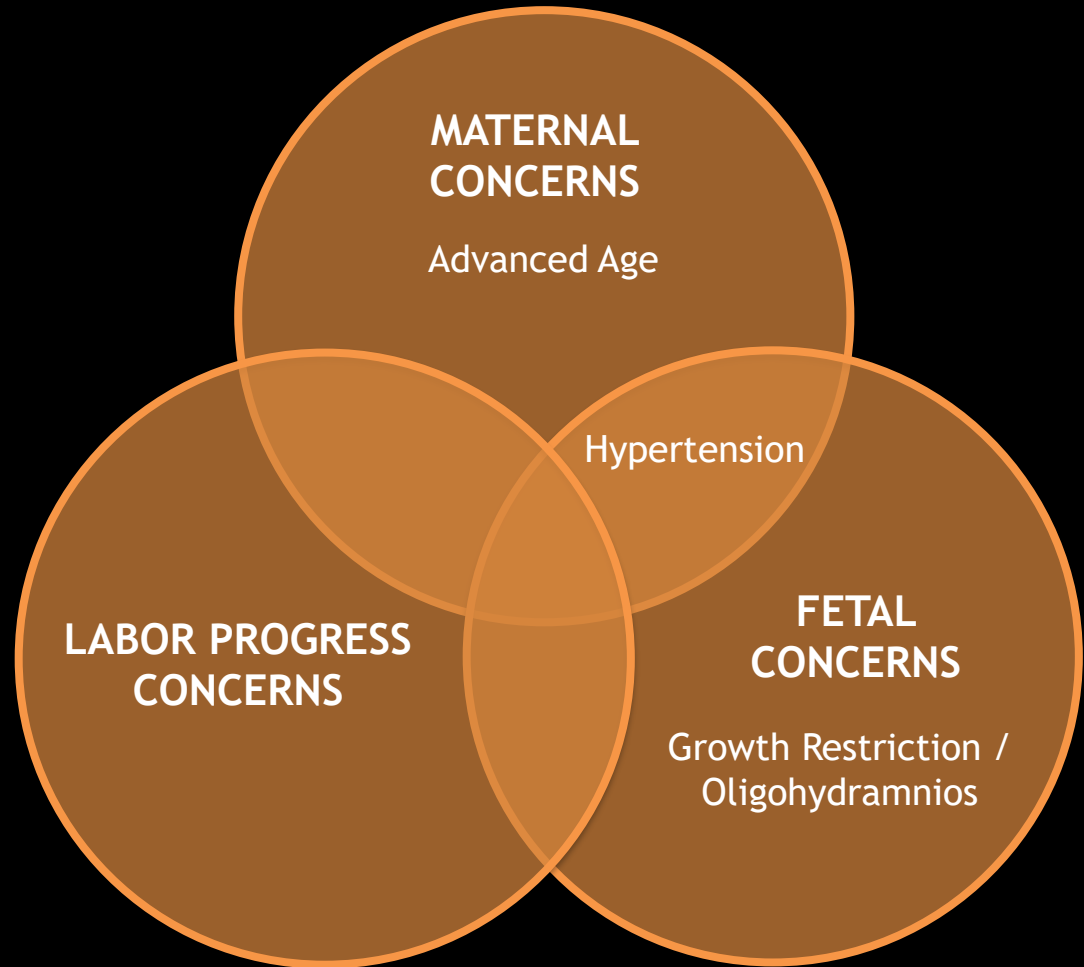
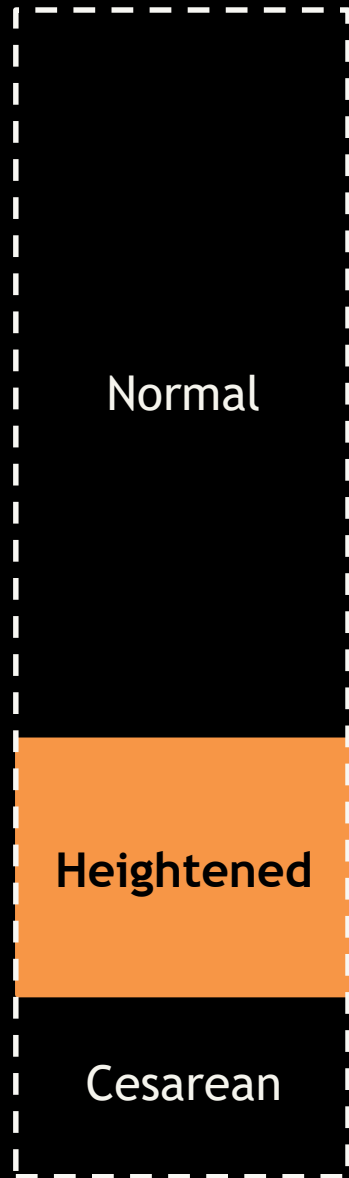
# Risk Migration



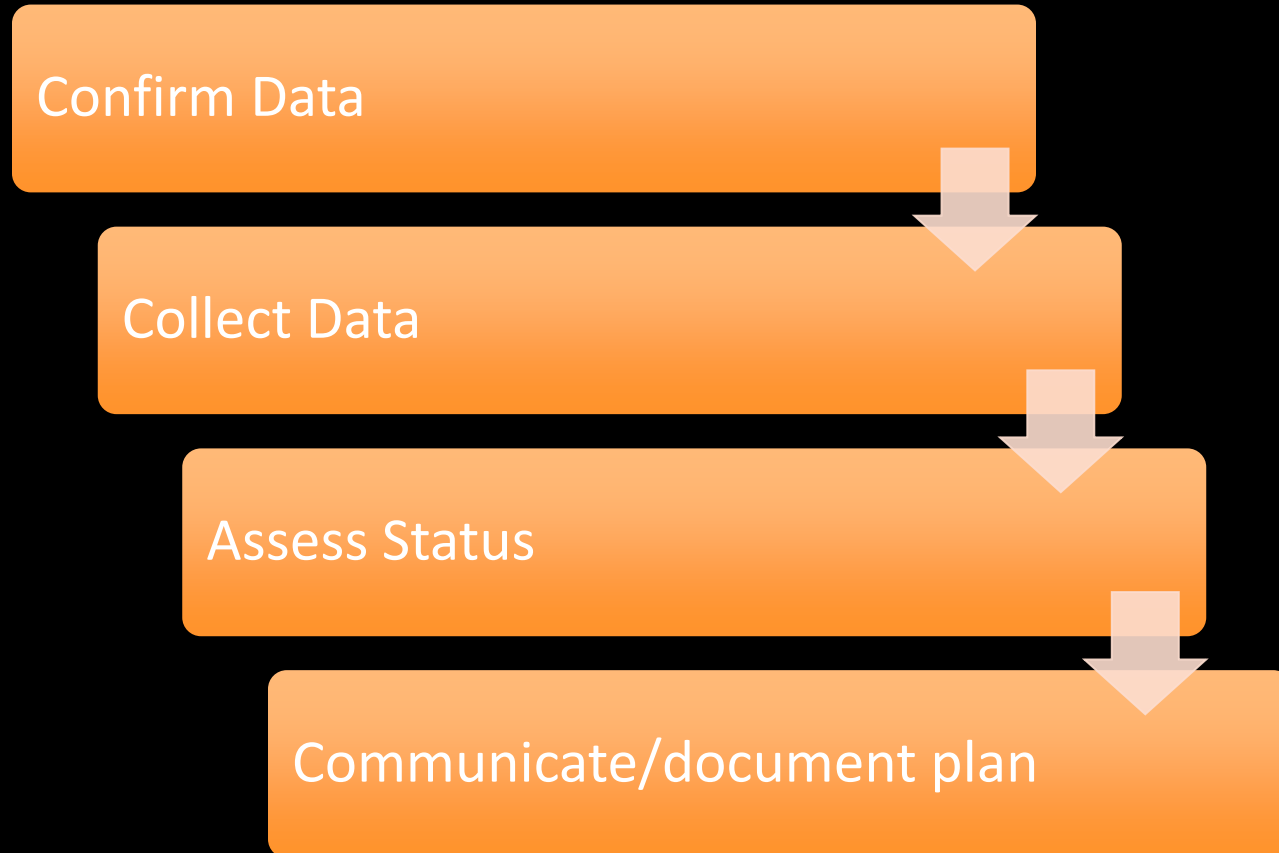
# Labels



*Level of Concern*



# What content should every labor assessment ideally







  
**ARIADNE LABS**



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