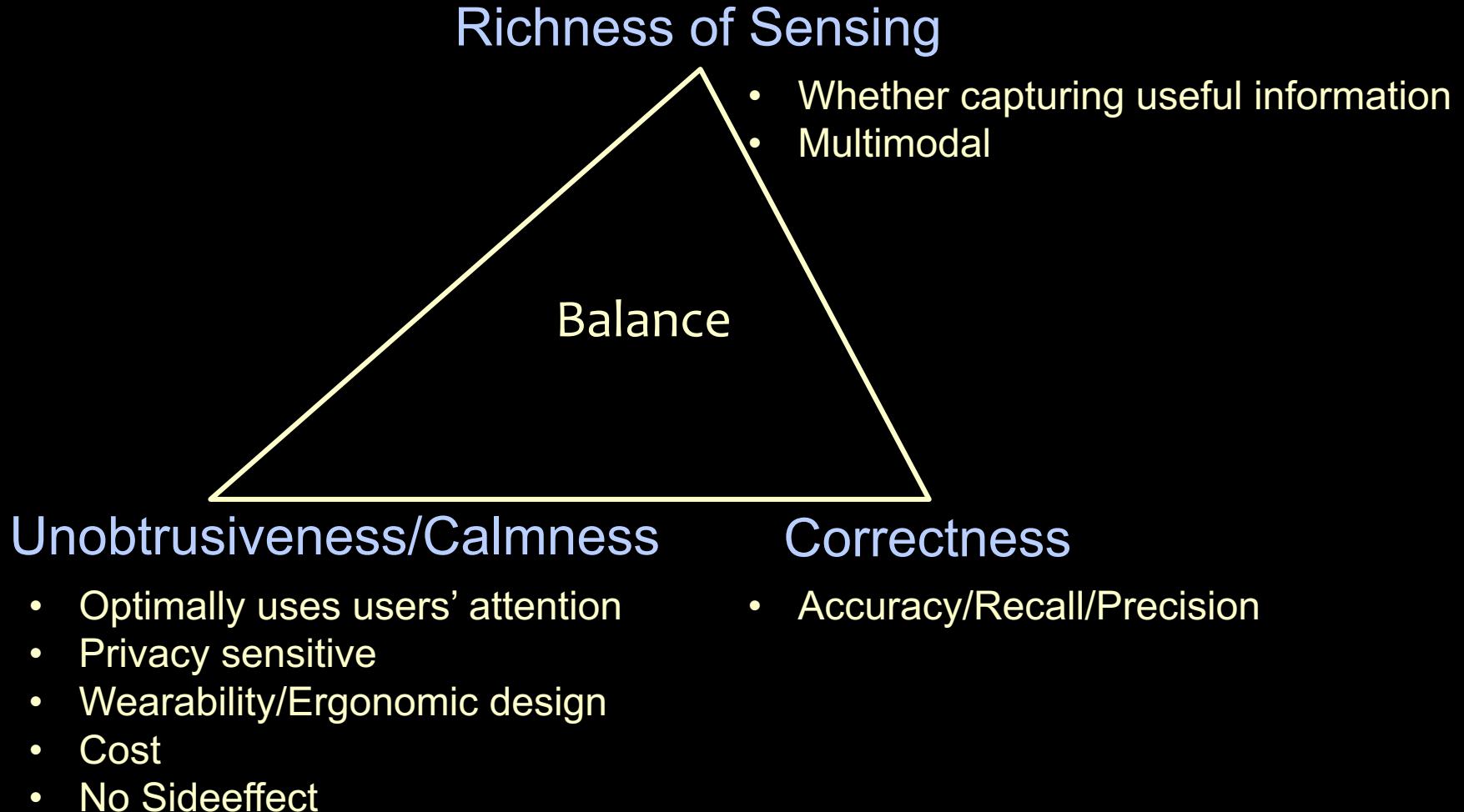


Generalized Framework



Vision of mHealth Sensing

Passive and continuous sensing of internal health information that is hidden deep inside our body or in our material surroundings in an unobtrusive, accurate and reproducible manner

Vision of mHealth Sensing

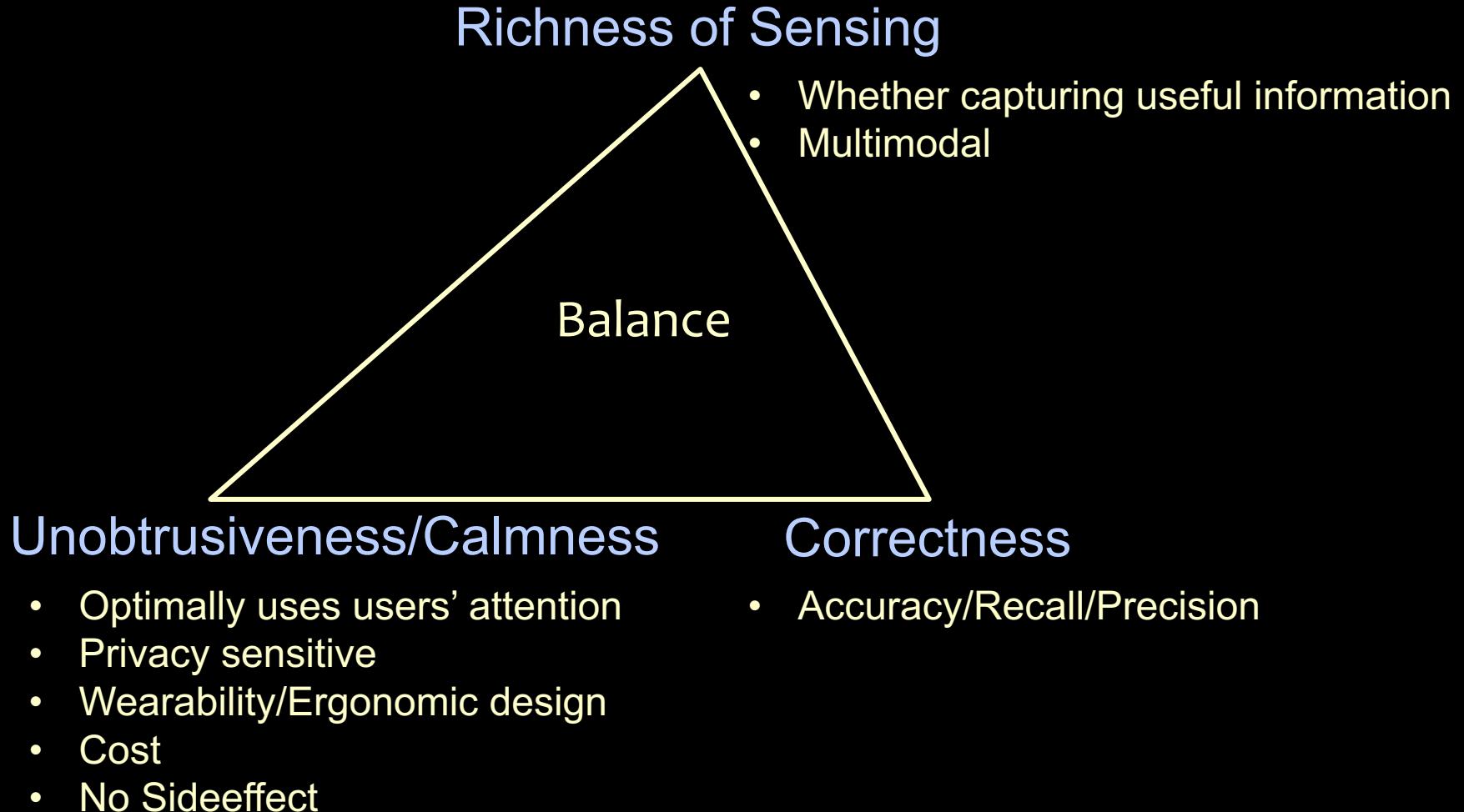
Richness of Sensing

Passive and continuous sensing of internal health information that is hidden deep inside our body or in our material surroundings in an unobtrusive, accurate and reproducible manner

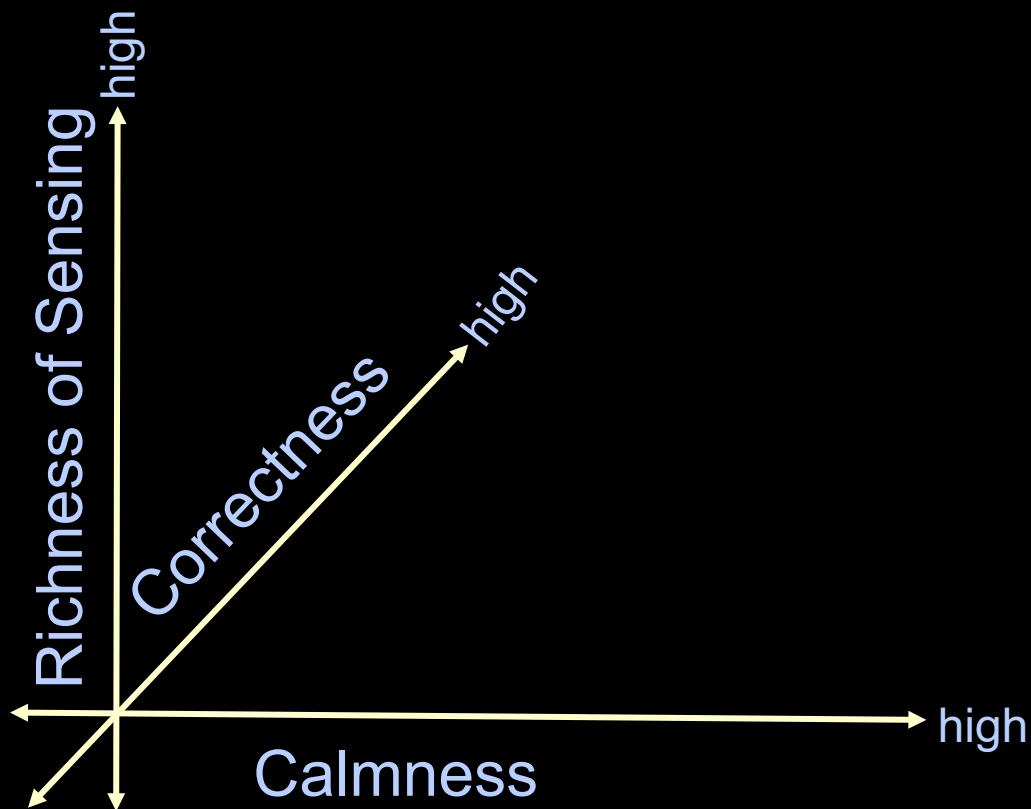
Unobtrusiveness

Correctness

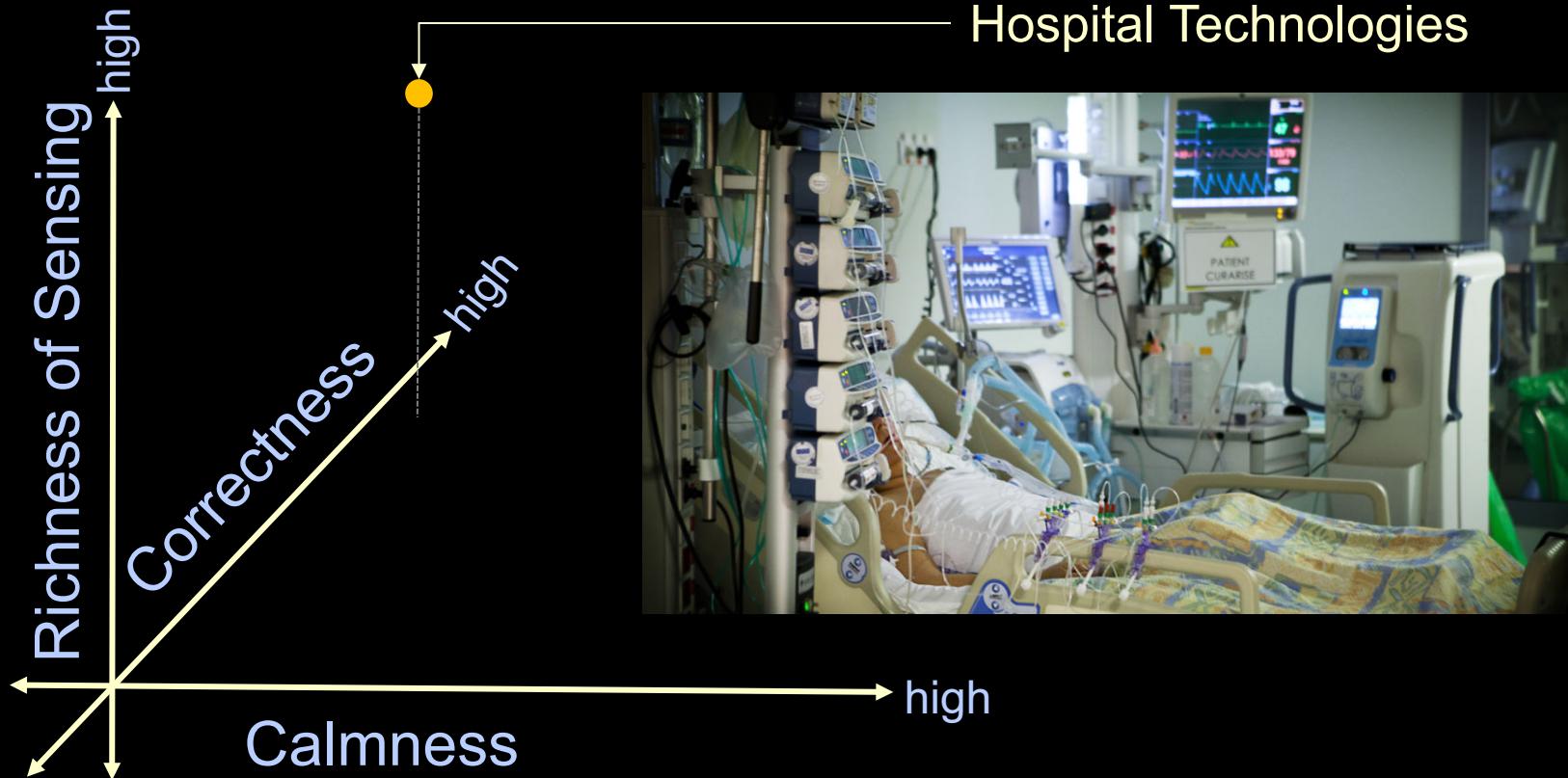
Challenge of mHealth Sensing



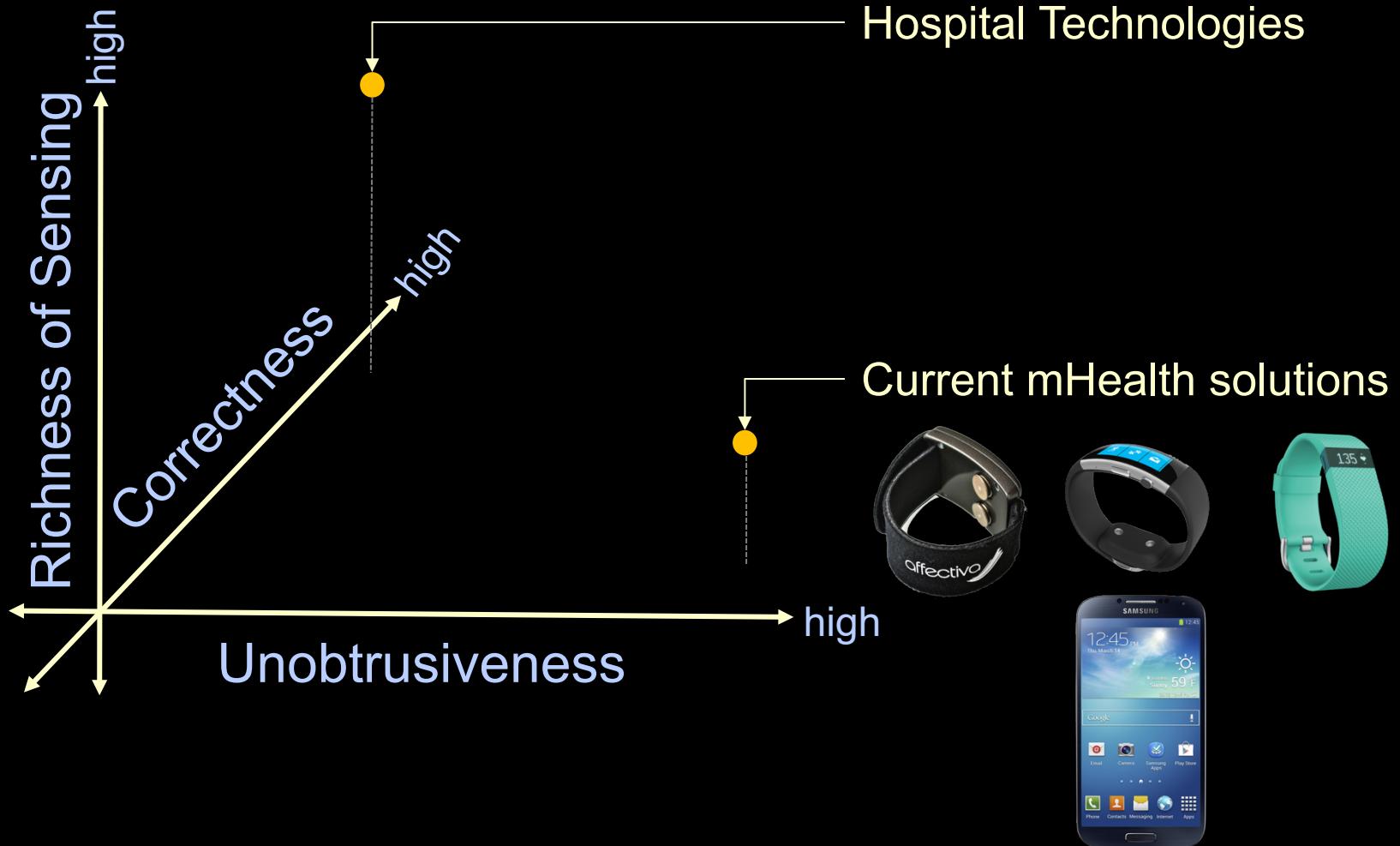
Challenge of mHealth Sensing



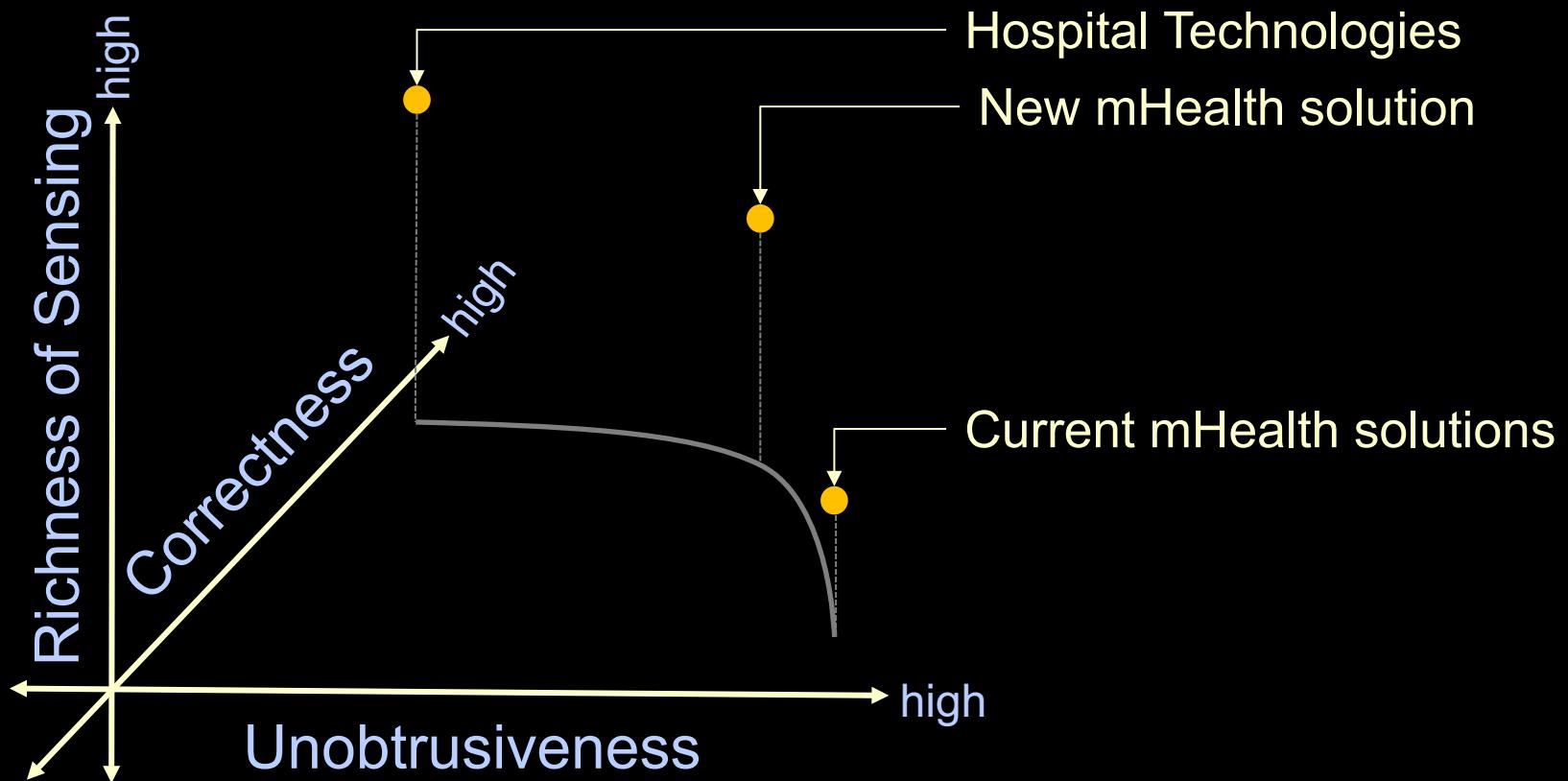
Challenge of mHealth Sensing

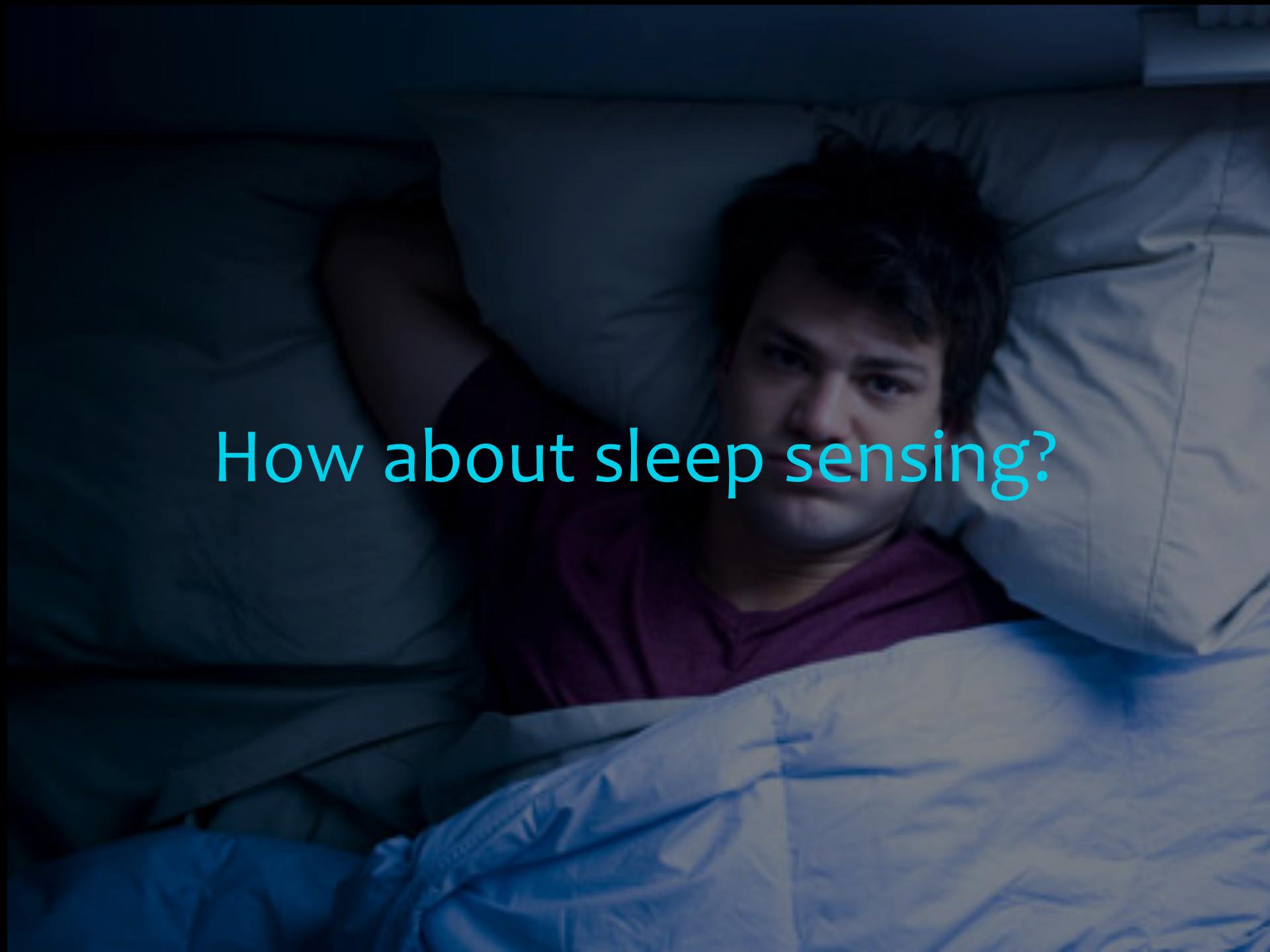


Challenge of mHealth Sensing



Challenge of mHealth Sensing



A photograph of a person with dark hair and bangs, wearing a purple shirt, lying in bed under a blue and white patterned duvet. They are looking directly at the camera with a neutral expression. The background is a dark, out-of-focus bedroom.

How about sleep sensing?

Different Sleep Tracking Systems

Polysomnography



EEG



Actigraphy

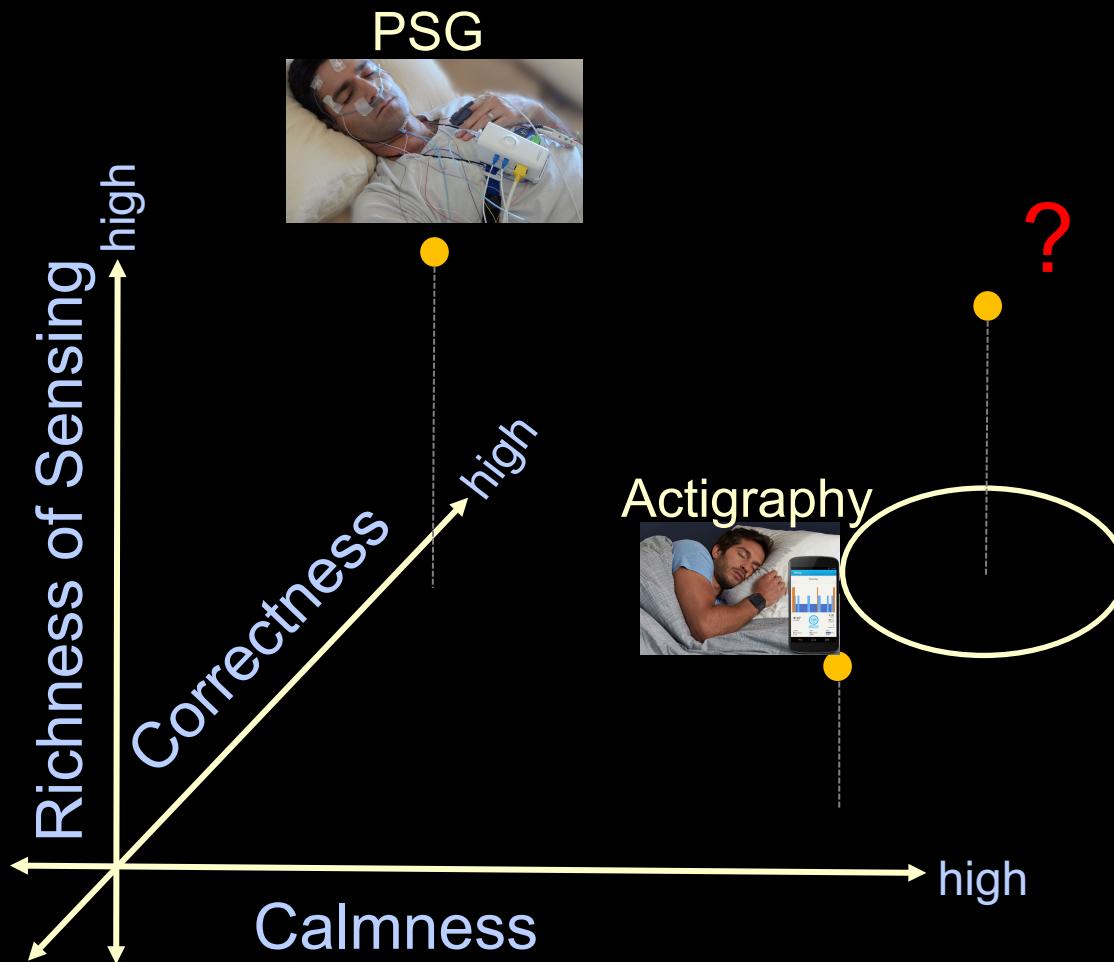
Polysomnography (PSG)

- High accuracy
- Low comfort

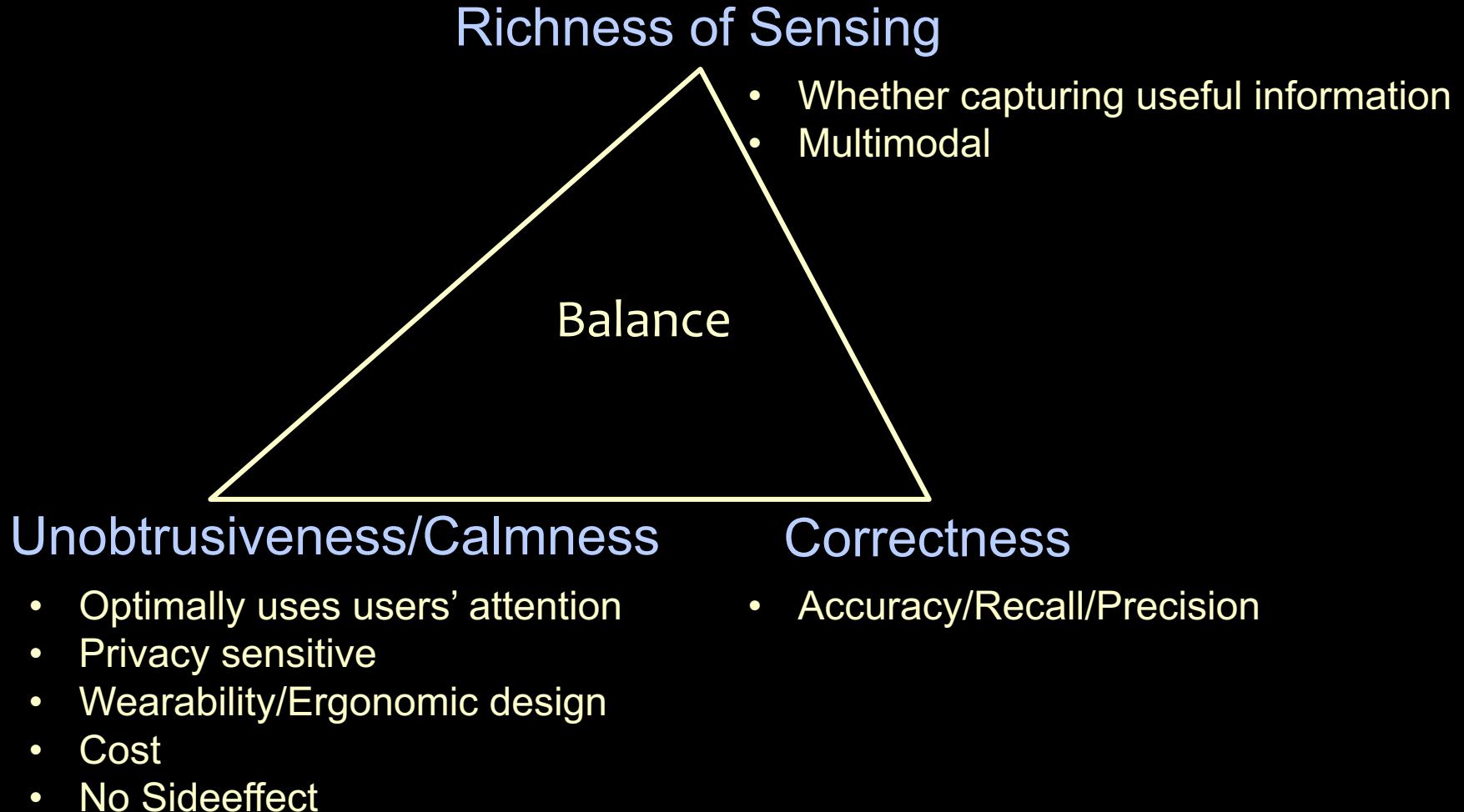
Less-obtrusive Sleep Sensing Solution

- High Comfort
- Low Accuracy

Challenges of Sleep Sensing

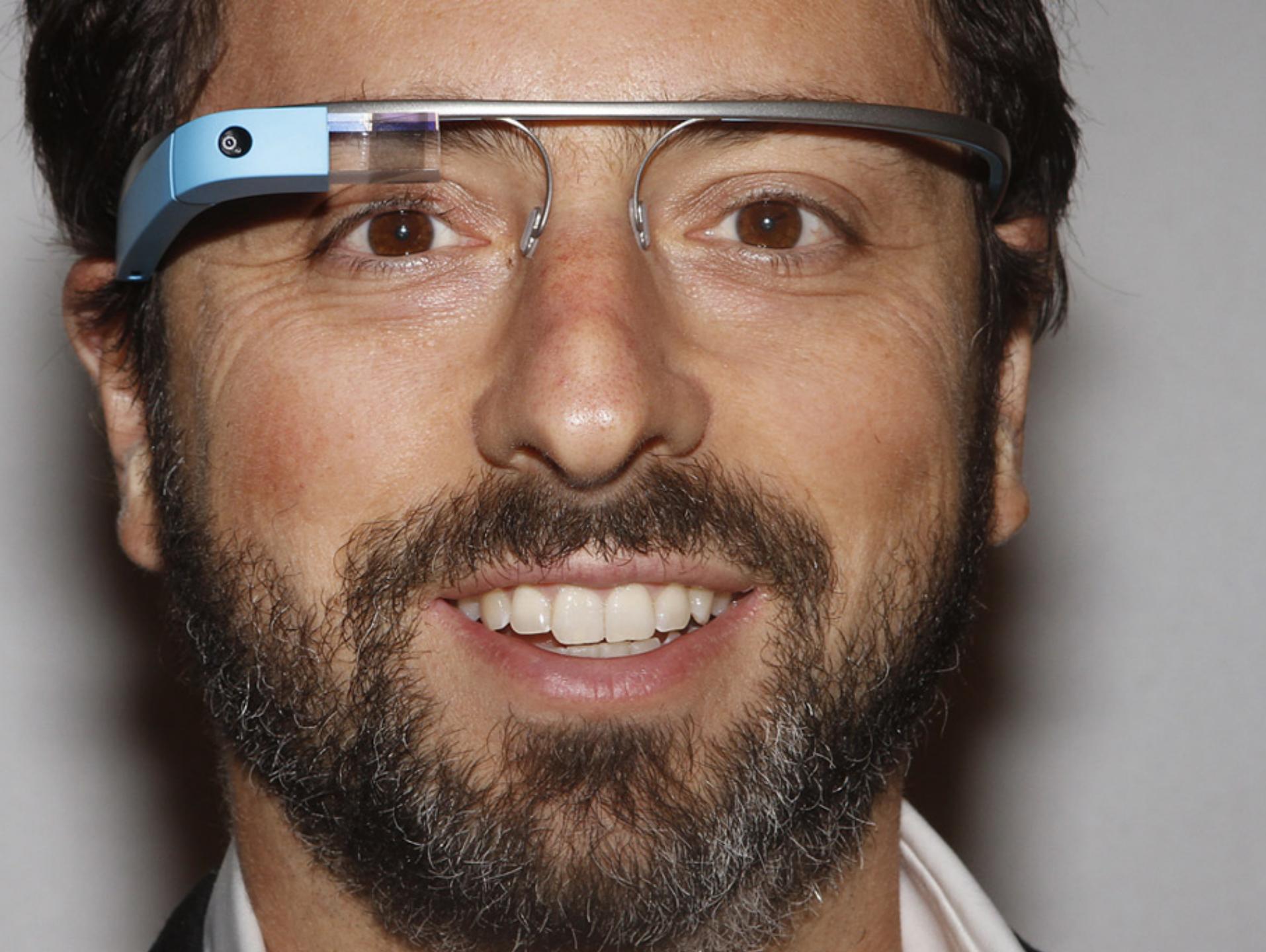


Generalized Framework



A photograph of a city street scene. In the foreground, a man in a suit walks away from the camera. In the middle ground, a woman in a white blouse and black skirt stands by a pole, talking on her phone and holding a folder. To her right, a woman in a red dress walks away, looking at her phone. Behind her, a man in a grey jacket walks towards the camera. In the background, there's a stone building with a door and a window. A small number '39' is visible on the wall.

Can it be an example of calm
technology? If not, how can it be
improved?









While thinking about your final project please keep this generalized framework in mind!

