

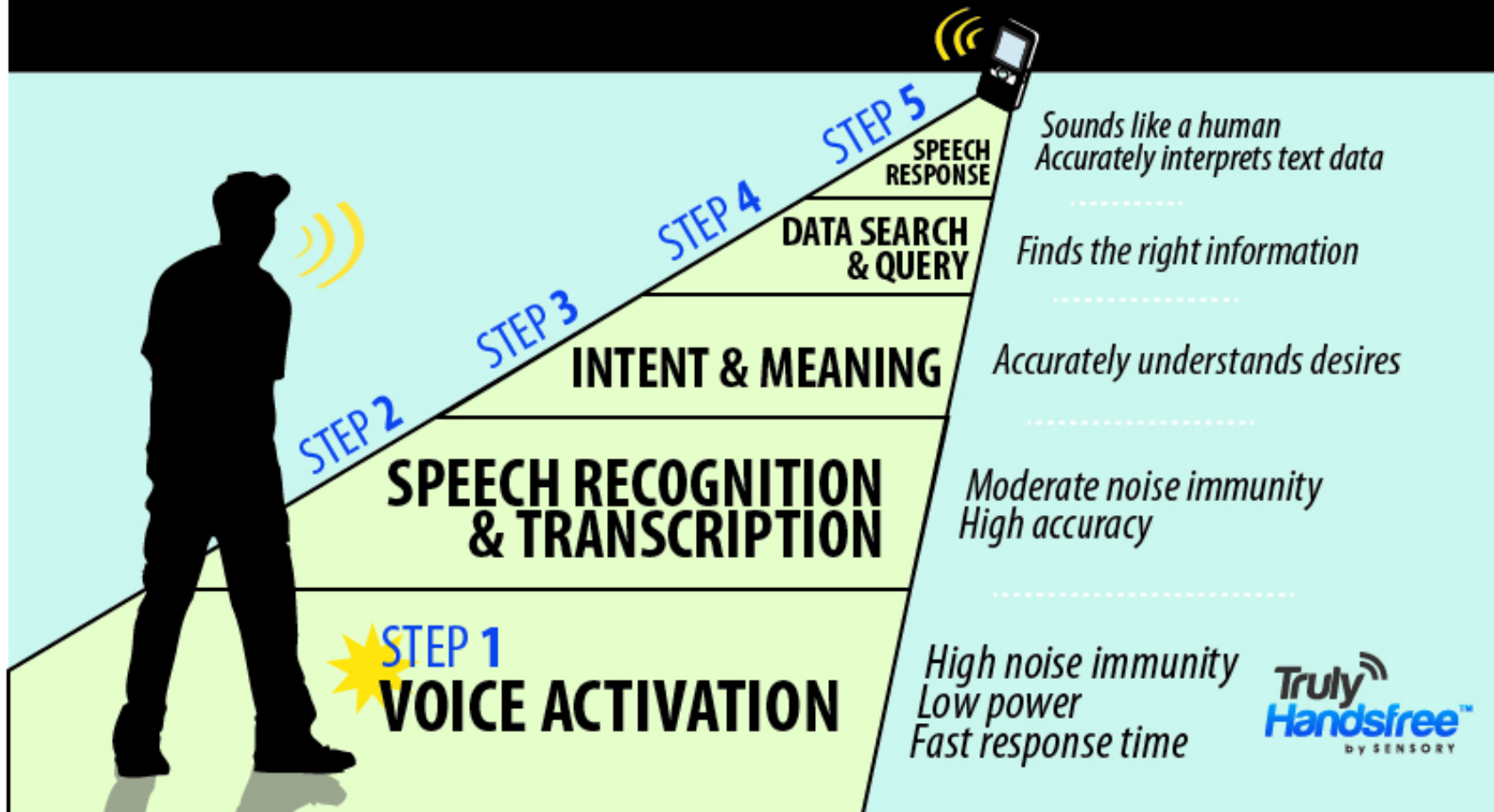


**Mobile Voice Conference**  
**TrulyHandsfree Voice Assistants**

March 2012

# Key Steps of Mobile Voice Assistants

## KEY COMPONENTS OF: THE MOST NATURAL USER INTERFACE: **SPEECH**



## ***Why Voice Activation?***

- **Safety**
  - in car, eyes busy hands busy
- **Legality**
  - No touching handsets while driving
- **Convenience**
  - Voice remote control of everything!
- **Natural**
  - No touch required



## ***Voice Activation Requirements***

- **High Accuracy**

- No problems with start or endpoint detection
- Works from a distance
- Works in noise
- Minimal false accepts & minimal false rejects

- **Ripping Fast Response Time**

- “Hey Trigger, How do I get to Starbucks?”
- “Hey Trigger, Call Jack Daniels”

- **Ultra Low Power Consumption**

- Sometimes vs always on
- Deeply embedded vs embedded in OS



# ***Where will HandsFree voice assistants go in the future?***

- **You get to choose your assistant**
  - personality, looks, voice, etc.
- **Assistant knows who you are**
  - Speaker verification
  - Adaptation to your voice/accent
- **Assistant knows your preferences, habits, schedules**
  - “Hey Todd, there’s a good vegetarian restaurant down the street”
- **Assistant can “eavesdrop” and help without being asked**
  - Just noticed a low airfare to Barcelona for Mobile World Congress



Property of Miramax. Screenplay by Paul Schneider. Screenplay by Paul Schneider. Screenplay by Paul Schneider. Screenplay by Paul Schneider. Screenplay by Paul Schneider.

"FORBIDDEN PLANET"  
A Metro-Goldwyn-Mayer Picture

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# THANKS!



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