

Konica Minolta Universal Design

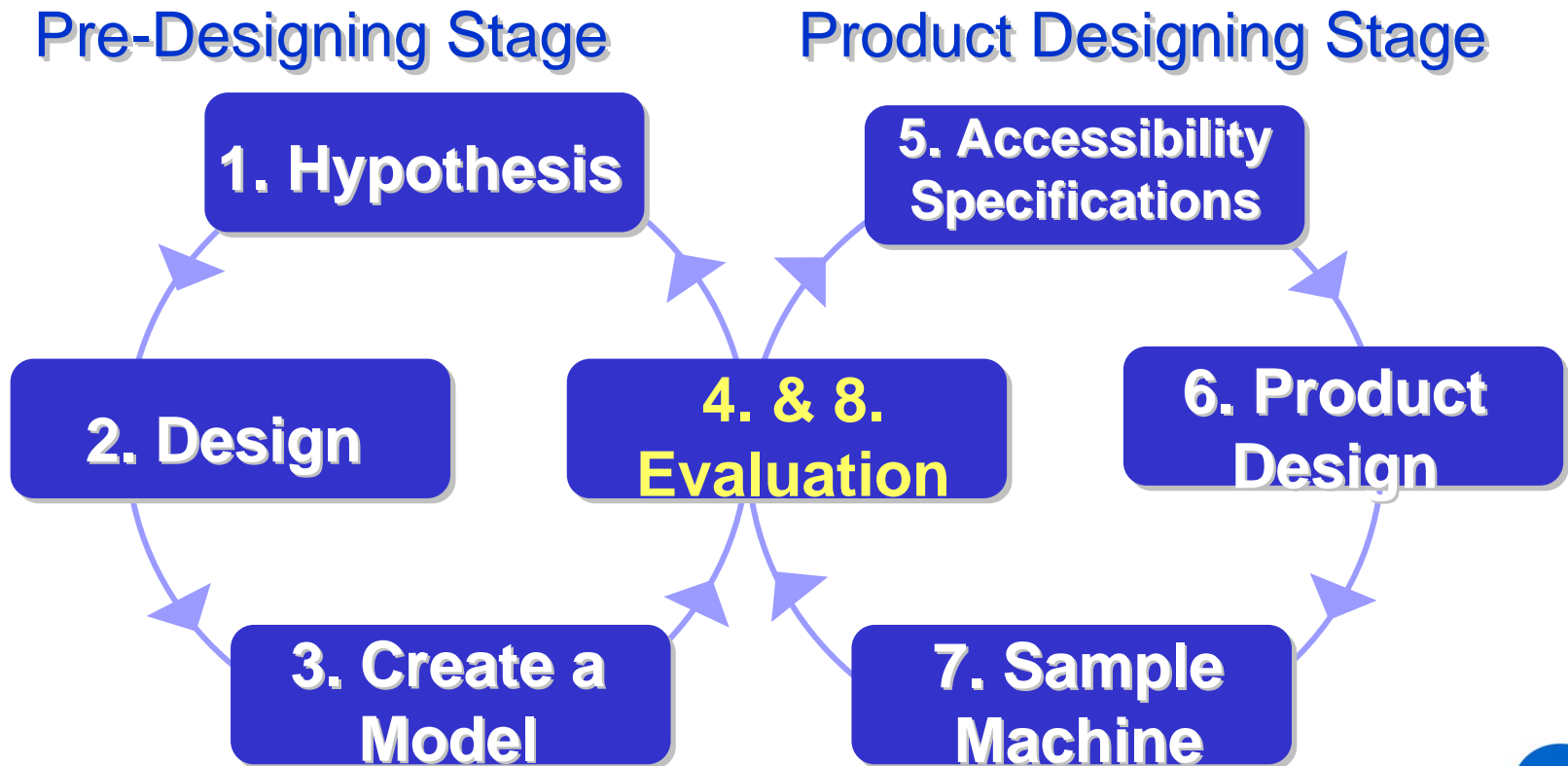
Konica Minolta Business Solutions

Section 508 of the Rehabilitation Act

- 🌀 What is section 508?
 - Section 508 is a part of the rehabilitation act of 1973 which requires that electronic and information technology developed, procured, maintained, or used by the federal government be accessible to people with disabilities
 - Federal/state/municipal government
- 🌀 Vendors can complete a VPAT (voluntary product accessibility template) which is information on how a product or service conforms to the section 508 access board standards
 - Konica Minolta products' VPAT is posted on <http://www.kmbs.konicaminolta.us>

Section 508 of the Rehabilitation Act

- 🌀 Konica Minolta designs products around Section 508. The development process is divided into 2 Stages – Pre-Design Stage and Product Design Stage. Only if you pass each step, can you proceed with development.



Step 1: Hypothesis, based on User Survey

- Based on survey from people with various disabilities, Konica Minolta creates a hypothesis.

Users	Difficulties They Experience
Elderly	• Difficult to do fine settings
	• Difficult to bend forward and backward
	• Difficult to see closer areas
Visually Impaired	• No visibility
	• Cannot see the center of visibility
	• Narrow/Tunnel Vision
Color Blind	• Cannot see correct color
	• Cannot/difficult to differentiate colors
	• Some specific colors look like a different color
Hearing Impaired	• Cannot hear sound
	• Difficult to hear sound
Upper Extremity	• No arm or fingers
	• Cannot apply force to arm or fingers
Wheel Chair Users	• Limitations to access
	• Limitation to height of visibility

Steps 2 & 3: Design Model Unit

- Based on the hypothesis Konica Minolta will design and create a model unit.

Model Unit



GUI Simulator



Step 4: Evaluation by Monitors

- 👁️ Konica Minolta has 28 people with various disabilities who evaluate our products to see if it will meet their requirements.
 - Elderly
 - Visually impaired (minor vision, no vision)
 - Color impaired
 - Wheel chair
 - Other physically challenged people

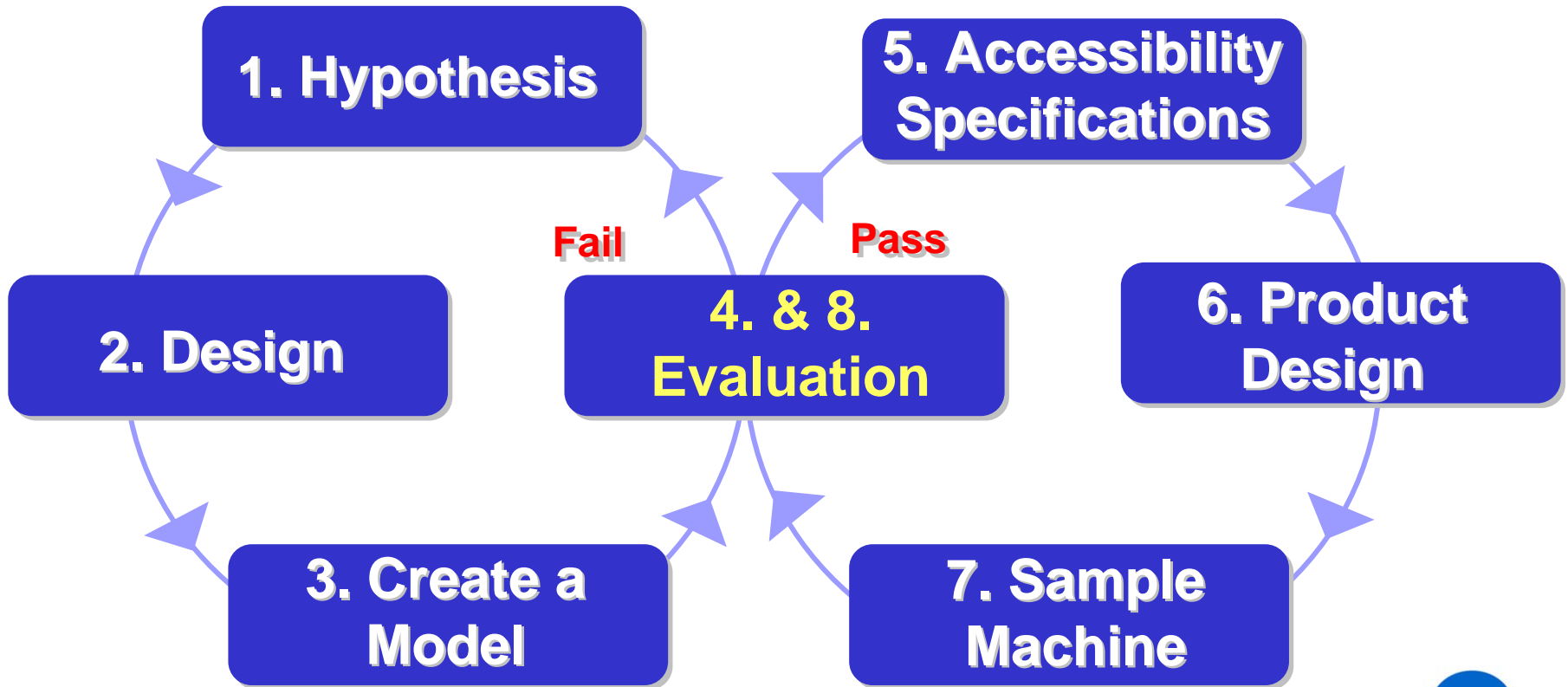


Check Point: Result of Evaluation by Monitors

- 🌀 If PASS, then go to Product Designing Stage
- 🌀 If FAIL, go back and revise Hypothesis and start again

Pre-Designing Stage

Product Designing Stage



Steps 5 & 6: Adopt Accessibility Specifications

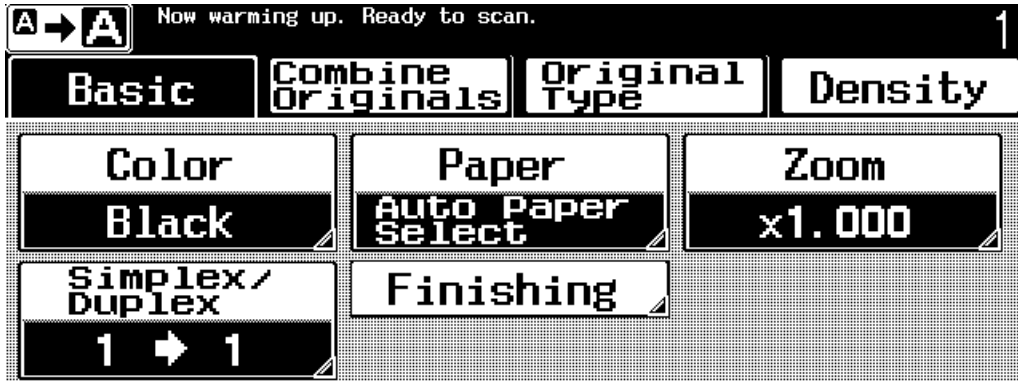
- The accessibility specifications are designed into the product.



- High Contrast Text on Panel
- Larger Fonts
- Tactilely Discernable Keys

Steps 5 & 6: Adopt Accessibility Specifications

Enlarge Display



Key Position and Shape



Steps 5 & 6: Adopt Accessibility Specifications



Contrast of Panel



Make Exit Tray Darker

Steps 7 & 8: Create Sample Unit

and Evaluate by Monitors

- 🌀 Ask monitors to do the tasks using the sample models
 - Check the usability through check lists and interviews
 - Normal Copy
 - Paper Replenishment
 - Toner Replenishment



Konica Minolta's Universal Design Committee

- ❁ Konica Minolta has a Universal Design Committee (focusing on world-wide accessibility standards) comprised of members from each R&D and Design Division
- ❁ We also have UD Workgroups (ex. LCD Panel WG, Options WG, Applications WG, etc.) within the UD Committee who focus on accessibility of each function and to assure a constant specification across the product line



Konica Minolta's Universal Design

**People Friendly.
Easy to use for everyone.**