

Futureproof? Automotive HMIs for Long Term Success.

> Ronald Zehmeister, MBA automotive interiors EXPO 2011 May 18th, Stuttgart



What is the future of your product?





Future Studies

- Is not a method for predicting the future
- Is a study of current trends in order to forecast future developments





Catch Phrases









altia[®] Relevant Factors in Automotive HMIs





Further Consolidation of Factors for Automotive HMI





1. Mode of HMI Interaction





2. Type of Display





3. Ubiquitous Computing





4. Level of Virtualization





Scenario Development









Scenario 1



Scenario 2



Scenario 3







Brain Hemispheres





Paradigm Shift





2016: The User Interface Revolution Underway

"Looking at the next five years, the role of interface design will only increase in importance as companies compete to win market share worldwide. Ease of use is essential to winning hearts, minds, and customers."

"The process for designing UIs will continue to come from research related to behavior, and from evaluation of how information hierarchies and protocols can be more intuitively accessed."

> Peter Eckert, *UX Magazine* February 24, 2011



People spend more time communicating with or via machines than with other people.

HMIs replace and change social interaction.



What directions should HMI be in right now?

- Produce an interface that is
 - Engaging and fun
 - Safe
 - Intuitive
 - Learning (adapts to behavior and preferences of user)
- How do you do this?
 - Find out what features your customers want
 - Develop a graphical model with those features
 - Test!
 - Incorporate feedback into your model (Test again!)
 - Generate code for the approved model...and deploy it into your production vehicle



Altia's Mission

Get a cool, effective HMI design from the Artist's imagination to the lowest cost hardware in the shortest amount of time



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