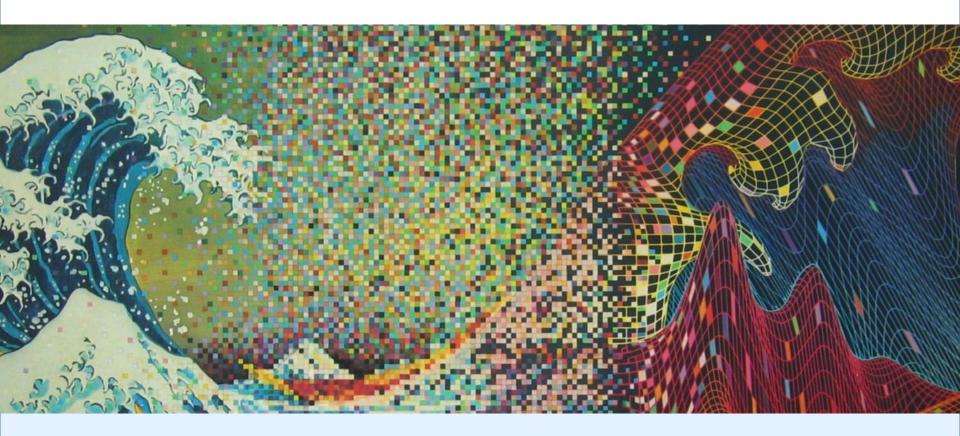
New Mobility Systems



Vijay Gurbaxani Founding Director, Center for Digital Transformation Taco Bell Professor of Information Systems and Computer Science

World Materials Forum 2016 Nancy, France June 9-10, 2016

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Multi-modal Transportation Systems



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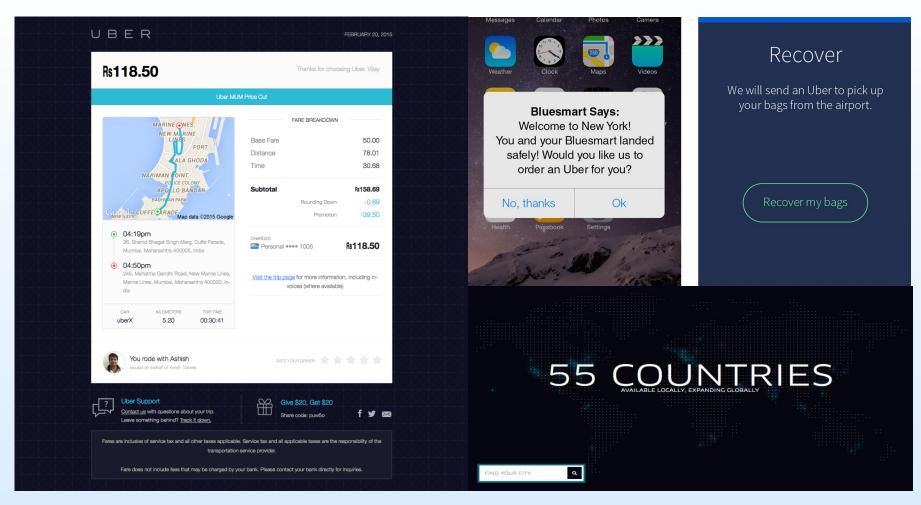


The Future Isn't What It Used To Be





UBER But It's Already Here: New Model For An Old Business





Investing \$1B in China's Didi Chuxing





Peugeot: Push to Pass

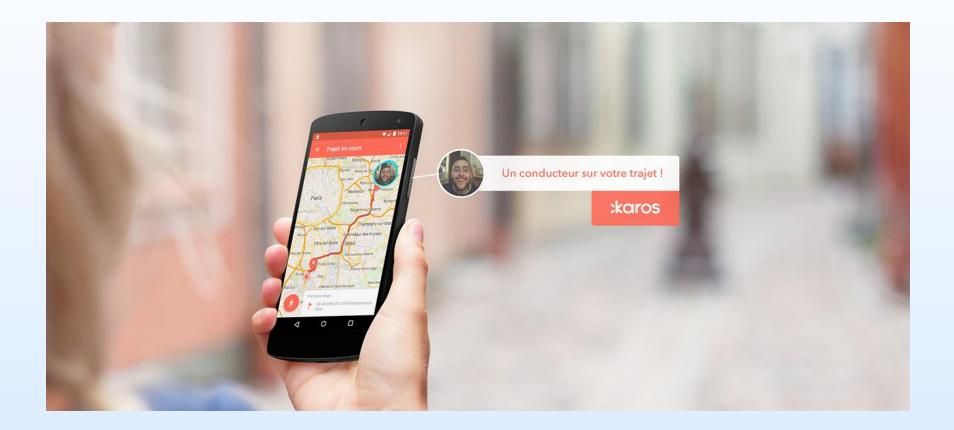




Europcar: Flexible Options



Karos: Carpooling





We're All Competing On A Software Playing Field



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A Software Economy Is Capital Efficient



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In The Multi-Modal Future, Everything Will Be Connected



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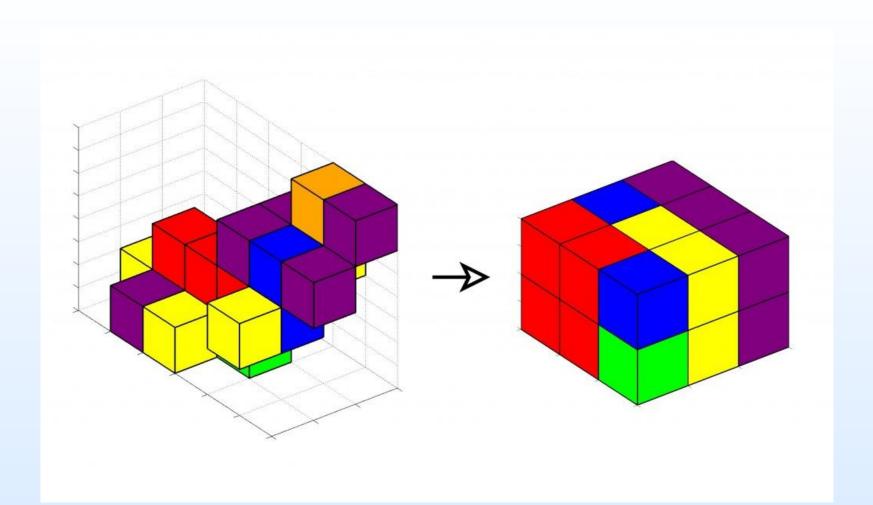


Value Creation: Reconfiguring Assets And Resources

- Value-creation process amounts to using "recipes" for rearranging things
- Put them in more valuable configurations than older ones
- In a connected world, reconfiguring assets is easier to do



The Goal: System-wide Efficiency





Solution Design Will Vary





A Connected Multimodal World Will Lead To..

- Improved asset efficiency
 - New ownership models
 - Fewer cars sold
 - Lower demand for highway expansion
 - Less parking
 - Higher demand for efficient assets (buses and trains); lower demand for less efficient assets
- In total, should lead to significantly lower demand for and shift in materials used

