designnovation

Design Innovation Institute

research

education

museum

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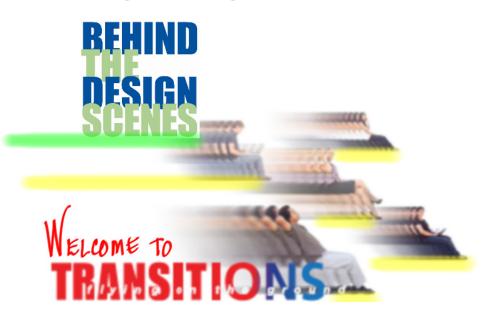
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Graphic recording by Joe@SterlingInsights.com 619-659-1234



g e t there, faster

High Speed Transit Forum

Design's Impact on High Speed Rail, Maglev

Trains and Personal Rapid Transit

Thursday, November 12, 2009 6-8 PM

Brown Chapel, Point Loma Nazarene University

San Diego, California

Tickets & Information: 619.299.0433 x13

www.designinnovationinstitute.org



"It is a pleasure to extend my greetings to all who have come together for [Design Innovation Institute's] High Speed Transit Forum.

Thank you for being a part of the growing dialogue about the need for high-speed rail in our Golden State. Thank you for your hard work, your ideas and your efforts to uphold California's tradition of advancing technology that changes the world".

-Arnold Schwarzenegger, Governor of California

"Design plays a vital role in our society, including how we travel. I congratulate the Design Innovation Institute for encouraging the discussion of design as we evaluate our high speed rail options".

-Ron Roberts, San Diego County Board of Supervisors, 4th District

"Nissan Design America would like to congratulate and encourage the TRANSITions - High Speed Transit Forum - and applaud the panelists who bring their years of knowledge and insight to this eye-opening event. The larger subject of transportation is one of the most talked about topics in our world today . . . The "Joy of moving people - efficiently" can be applied to all aspects of this important social need."

- Bruce Campbell, Vice President, Design; Nissan Design America

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designnovation

Design Innovation Institute

The Design Innovation Institute (Dii) is a 501(c)(3) non-profit organization with the objective of fostering interdisciplinary collaboration between traditional and non-traditional areas of design. Dii is helping to guide the way towards understanding and celebrating nature in design and enabling pathways towards responsible design, as cultivated through Dii's educational programs, innovative research, and non-traditional museum for the future. Our continuing Speaker Series, upcoming sustainable design workshops, Behind the Design Scenes programs, DesignCamp, and scholarly cross-disciplinary research projects will continue to encourage alliances among the most talented minds in the region. For updates go to www.designinnovationinstitute.org.

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BARAH CATZ

WE HAVE SO MUCH CATCHING UP TO DO!



WELCOME !

CERTIED
TRANSPORTATION
GEEK!
AND PROUD OF IT



Moderator

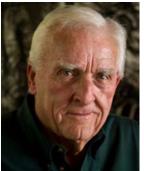
Sarah Catz is a California transportation leader. Ms. Catz is Director of the Center for Urban Infrastructure at the University of California at Irvine. A former acting Secretary of Transportation for the state of California, she has played a key role in major transportation projects in the state for the past fourteen years. She is a former chairperson of the Orange County Transportation Authority and was instrumental in the development of Metrolink in California.



Eric Anderson is a senior project manager and landscape architect at the firm of Parsons Brinckerhoff in Orange, California. His focus has been on large scale infrastructure and transportation planning as well as design. Mr. Anderson served as a project manager for the New Denver Union Station Multi Modal Hub. Recently, he took on management responsibility for PB at the Anaheim Regional Transportation Intermodal Center (ARTIC) project. Eric Anderson holds a Bachelor of Science degree from Iowa State University in Landscape Architecture and is a member of the American Society of Landscape Architects.



M. Neil Cummings is head of the American Magline Group (AMG). The Group is a consortium leading the effort to build a magnetic levitation train along the I-15 corridor from Las Vegas, Nevada to Anaheim, California. Mr. Cummings is a graduate of The Hastings College of Law and The United States Navy Academy. He is a principal at the law firm of M. Neil Cummings & Associates.











Keynote Speaker Richard Farson is a psychologist, author, and educator.Long interested in the field of design Dr. Farson was founding dean of the School of Design at the California Institute of the Arts. He is a former president of the International Design Conference in Aspen. Richard Farson has served on the American Institute of Architects Board of Directors and is a Senior Fellow of the Design Futures Council.

In The Power of Design, Farson asserts a deeply engaging premise: Design can transform the world. It can put right what is wrong in our communities. It can address society's most intractable ills. Properly mobilized, he argues, design could make a whopping impact on deep-rooted dilemmas such as the ravages of poverty, the miserable state of the American education system, and the failure of criminal justice. It could do nothing short of move mountains.

Rich Flierl is an urban designer and landscape architect. Mr. Flierl is the founder of The Center for Connective Architecture, a multi-disciplinary think tank in the national spotlight for its exceptional work on urban redevelopment, new town planning and transit oriented projects. He is a principal at Cooper Carry where he currently guides downtown planning efforts in Atlanta, Georgia, Jackson, Mississippi, and Raleigh / Greensboro, North Carolina.

Dr. Alan Gin is a professor of economics at the University of San Diego. Professor Gin's research interests include public finance, urban transportation and the economy of San Diego. In that regard, he is best known for developing and publishing the monthly University of San Diego's Index of Leading Economic Indicators for San Diego County.

James McJunkin is a transportation designer. Mr. McJunkin led a design team at Rohr Industries Inc. in the early 1970's that worked on advanced concept transportation and prototype vehicles. The projects included a monorail Mag-Lev vehicle, a ground rail Mag-Lev vehicle, the San Francisco BART light rail vehicle, and a high speed-air cushion supported vehicle. He was a founding partner of the Pogue McJunkin consultancy in design and design manager for Nissan Design America in San Diego.

Harry Watkins is professor of strategy and sustainability at the Fermanian School of Business at Point Loma Nazarene University. Dr. Watkins has actively integrated triple bottom line principles - e.g. balancing objectives of profitability, social responsibility and environmental sustainability into his teaching and research. He holds a doctorate in strategic marketing from the University of Oregon.



Program Opening Remarks

5:30 pm Doors Open

6:00 pm Program Begins:

Existing Rapid Transit Systems Video

Mr. Calvin Woo, Co-Founder and Executive Director Design Innovation Institute Welcoming Remarks

Keynote Address by Dr. Richard Farson

TrenItalia High Speed Rail Video, London Heathrow PRT Video

6:30 pm Panel Discussion Led by Ms. Sarah Catz

7:30 pm Audience Q & A Segment

7:55 pm Drawing: Result Announced

Calvin Woo Closing Remarks

8:00 pm Program Concludes

Dr. Farson will be available to sign his book, *The Power of Design,* in the lobby after the program.



HIGH SPEED RAIL IS IMPORTANT TO CALIFORNIA!

VELCOME!



CALVIN WOO

THANKS TO
EVERYONE FOR
ALL THE GREAT WORK
TO GET US HERE.

WELCOME TO OUR SPEAKERS!

APPLIED
PESSEARCH
POLICY MAKING

DESIGN

EYES IN FRONT BODY FOR MOVING FORWARD

WE ARE THE PERSONIFICATION OF THE BULLET TRAIN

INNOVATION

GET SMARTER IN HOW WE SHIFT & FIT IN OUR CHANGING WORLD ... JUST LIKE ALL THINGS IN NATURE,

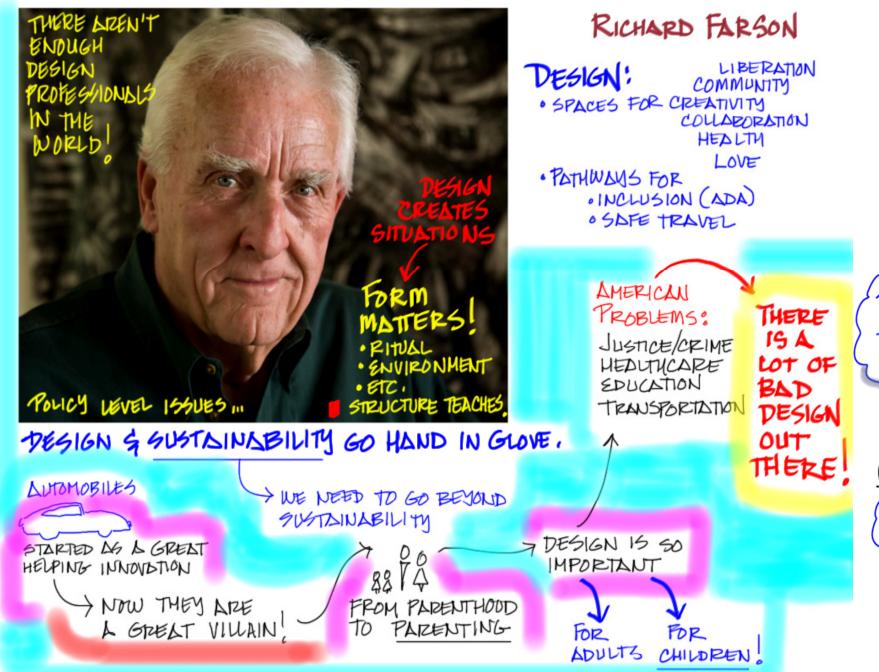


DEGIGN MATTERS!



Keynote: Richard Farson

Keynote: Richard Farson



1. SEE YOURSELF AS A LEADER

2, COLLABORATE

DESIGN SELF DIRECTED
THERAPY GROUPS
THERAPEUTIC O VERY SUCCESSFUL

META-PROFESSIONS

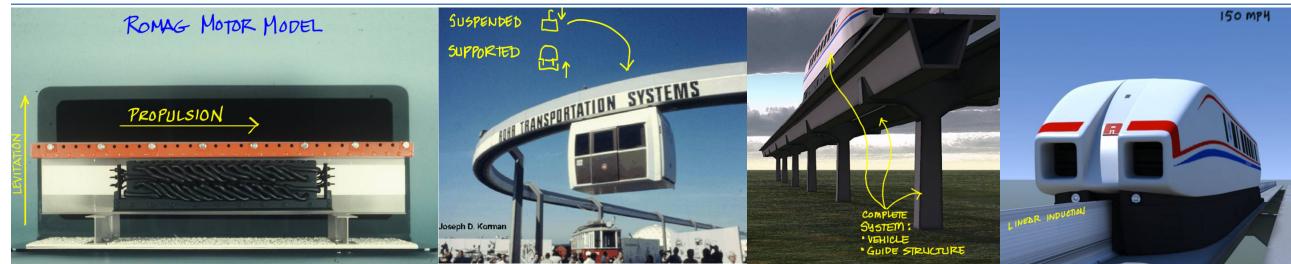
EX-CONS

DESIGN ROBBERY

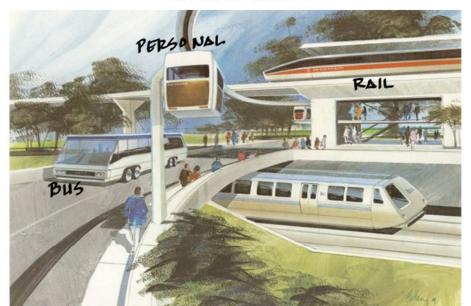
PROOF 7-115



Panelist: Jim McJunkin Panelist: Jim McJunkin



Transit Development in San Diego '70s Who Knew??



WHAT HAPPENED SINCE THE 70\$

DETROIT?

SAN DIEGO ROHR

INDUSTRIES

JIM MCJUNKIN

* DESIGN FOR

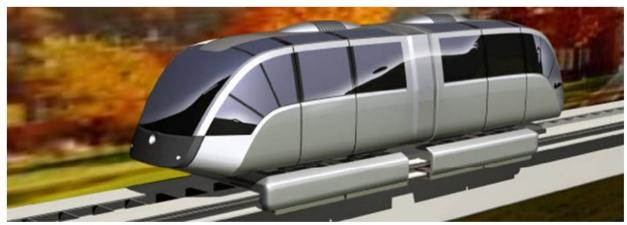
. TRANS PORTATION

. AUTOS

* LOOK FWD,

RACK TOO!

General Atomic Mag Lev '04







Panelist: Harry Watkins Panelist: Harry Watkins

WHAT IS THE GOAL?

Harry Watkins, PLNU, Fall 2009

THOUGHTS ON DESIGN AND **HUMAN TRANSPORT**

'Design is a signal of human intention, so... What is our intention as a human species?"

> William McDonough " CRADLE TO CRADLE"

Cradle to Cradle Concepts



Basics of Eco-Effectiveness:

- Waste = Food
- Use current solar income 15, ?
- Life creates conditions for life
- Biologic vs. technical metabolisms
- Ecology, Economy, Equity TRIPLE BOTTOM LINE





Cradle to Cradle in Practice:

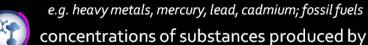
- Entire system design ~ INTEGRATED
- Toxicity sort of raw material inputs for:
 - Human health
 - Environmental impacts
- Design for recovery
- Keep biologic and technical components separate
- Design for disassembly and recovery
- Design reverse channels of distribution
- Design for low (and renewable) energy inputs.

In a Sustainable Society...

Nature is not subject to systematically increasing...



concentrations of substances extracted from the earth's crust



concentrations of substances produced by society e.g. 70,000+ chemicals; dioxins, PCBs, flame retardants

... and in that society ...



degradation by physical means e.g. forests, fisheries, farmlands



people's needs are met worldwide e.g. air, water, food, shelter, quality of life



Biomimicry:

SD ZOO-BIOMI MICRY

Learning from The Master Designer 3,2 BIL, YEARS OF R&D. Why should we emulate nature?

Organisms in nature face the same challenges we do, but they meet them sustainably.

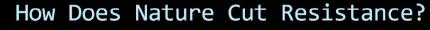


- Handle forces
- Distribute energy safely Glue things together
- Move water
- Create color







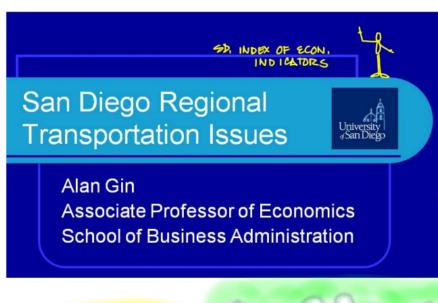


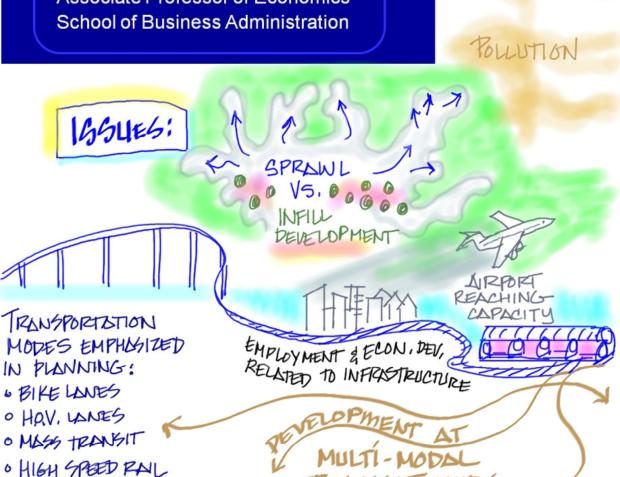


How Would Nature Design a City?



Panelist: Alan Gin Panelist: Alan Gin





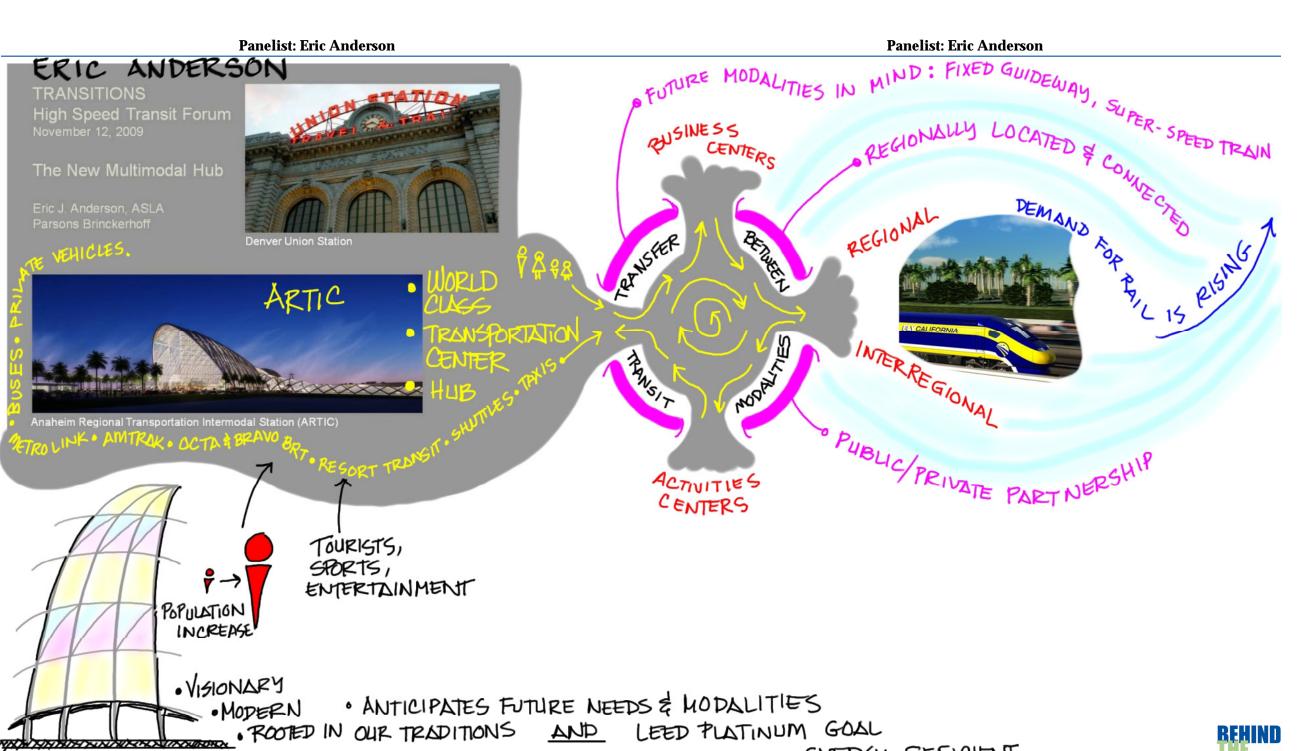
FORECAST POPULATION 2030

132% SINCE 2004 3,984,753 SAN DIEGO TRECHON



- **UN INCORPORATED** 155% = + 255,664 DREAS OF SD COUNTY
 - 1 52% CHULL VISTA 1 43% SAN MARCOS
 - CAPLSBAD 37%
- A NATIONAL CITY 33% 33%
- SANTEE
- IMPERIAL BEACH
- 28% = +361,110SAN DIEGO

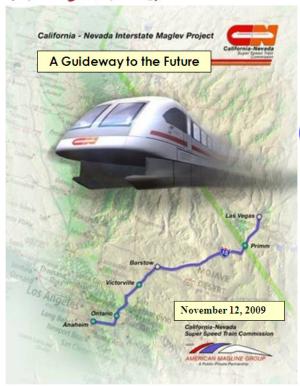




DESIGN ATTRIBUTES: SOARING OPEN SPACE . TIMELESS, LIGHT FILLED. ENERGY EFFICIENT

BEHIND Design **Panelist: Neil Cummings Panelist: Neil Cummings**

NEIL CUMMINGS





California-Nevada Project

- **History and Commission**
- Public-Private Partnership in Place
- Shanghai Maglev Proven System

Las Vegas-Anaheim System (100% Local Support)

I-15/Airports in Crisis

- Airports
- · I-15

Maglev Technology Offers a Solution

SAFETEA-LU Funding

Project Implementation Plan

· MAKES MONEY!

· SMALLER FOOTPRINT THAN HIGHWAYS OR AIRPORTS

PUBLIC + PRIVATE

· FUNDING.

- OMOVES MORE PEOPLE FOR LESS
- · POTENTIAL FOR TRANSCONTINENTAL SUSTEM







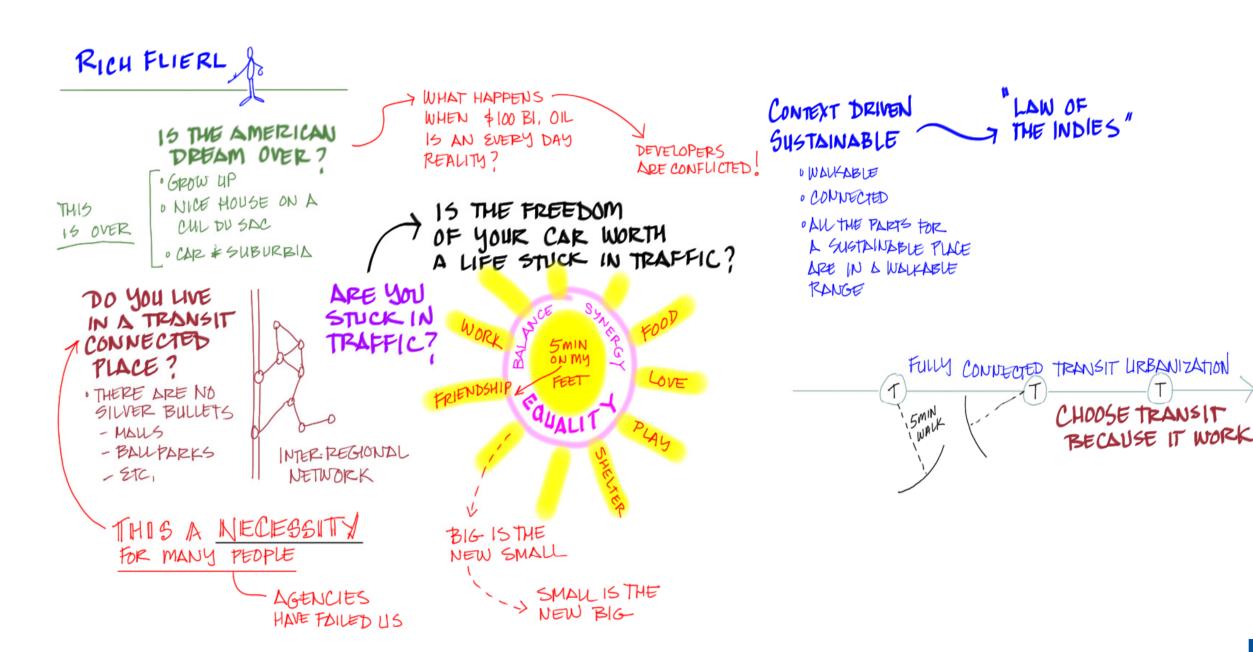




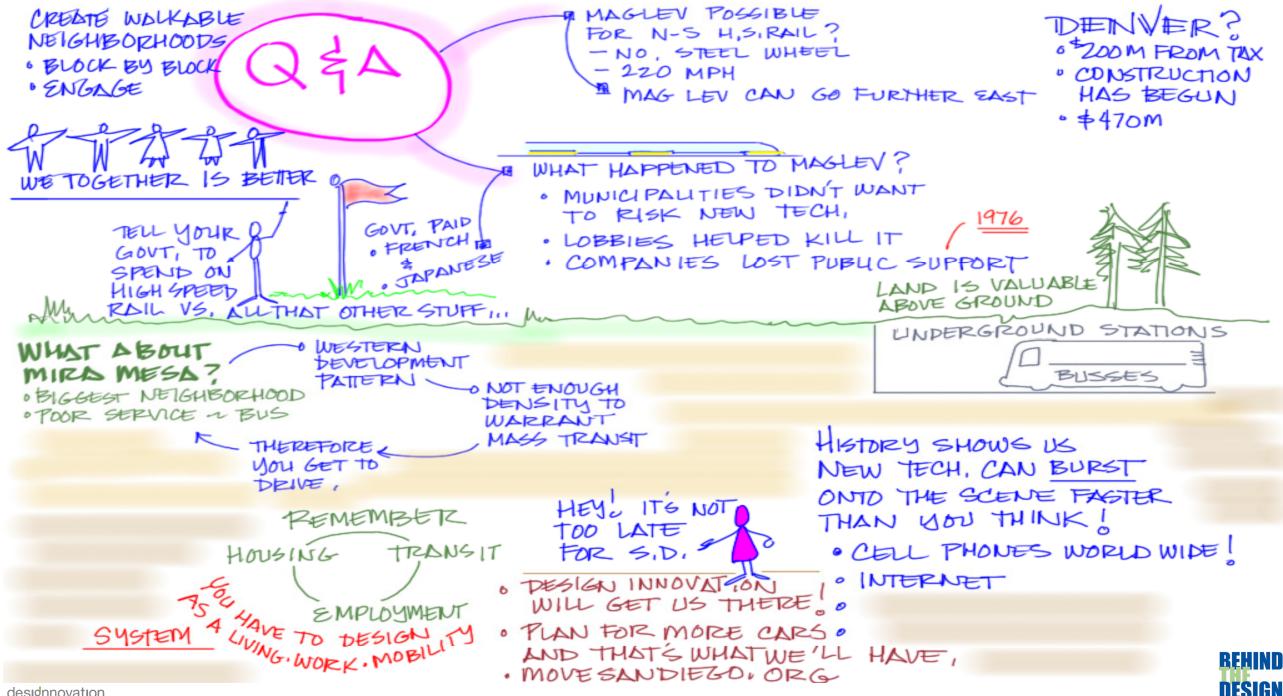




Panelist: Rich Flierl Panelist: Rich Flierl







Closing Remarks

Closing Remarks

