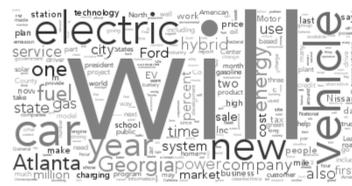
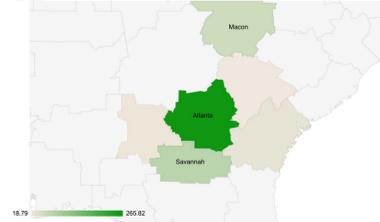
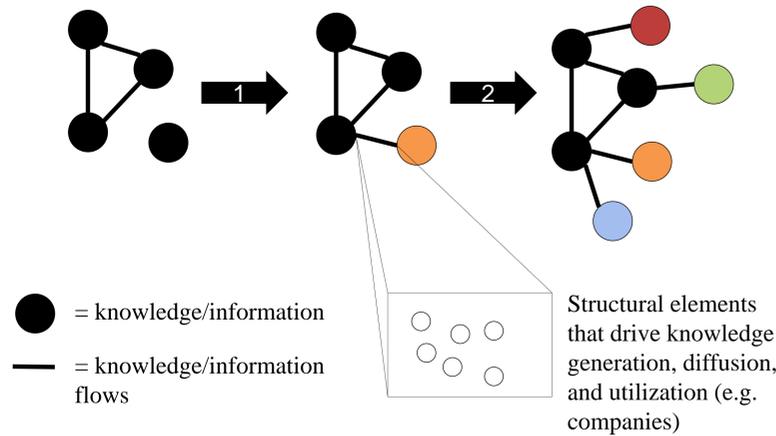
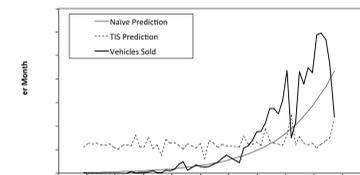


The **Technology Innovation System (TIS)** framework takes the view that the generation, dissemination, and use of information is what ultimately drives innovation. With a strong enough knowledge sharing network, the physical manifestations of innovation become guaranteed and trivial.

1. Actions can be taken that promote the diffusion or linking of knowledge
2. Actions can be taken (e.g. policy implementation) to generate new knowledge, or novel links or applications



Atlanta is featured heavily in EV information flow. Vehicles were also viewed as “future” technology

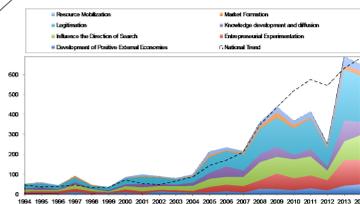


EV deployment in Georgia followed an exponential diffusion curve. Most deployment took place in Atlanta



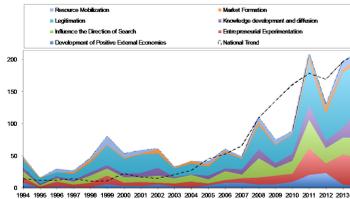
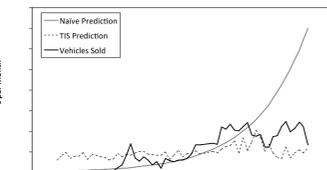
## Washington

In meetings, the Washington EV purchaser was still described as an “early adopter,” and a “technophile,” interested in the EV as a new technology that they would replace every 2 to 3 years, making leasing ideal.



Modeling results indicate that **Entrepreneurial Experimentation** has been significantly better supported in Washington than elsewhere in the nation. This means that there is considerable interest in EVs from the private sector and private industry; this includes discussion of joint ventures, commercialization activity, business mergers and acquisitions, and launching of new products associated with electric vehicles.

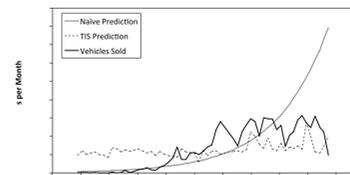
From 2012 (left) to 2013 (right), EV technology transitioned from a “future” technology to one that was in use. New vehicles, like the Tesla Model S became available, significantly impacting the market.



The measured TIS in Georgia shows some peaks and troughs, but appears to mimic the TIS in the U.S. EVs were first supported through policy in the late '90s, and more recently incentives and support for EVs has been removed.

EV Diffusion in Georgia was primarily driven by a generous income tax credit of \$5,000 that could be applied to leasing arrangements. This allowed for individuals to lease the Nissan Leaf, practically for free, for 2-years – the duration of the lease.

Georgia has had substantially worse support for **Influence the Direction of Search** and **Legitimation** compared to other states. This functional weakness may be what contributed to the recent removal of the considerable income tax credits associated for EV purchases and leases.



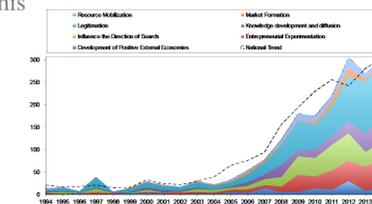
Despite a fully refundable state income tax credit of up to \$6,000, EV diffusion in Colorado has not been significantly different compared to elsewhere in the United States.

In meetings, participants suggested that new efforts were underway to increase information and knowledge about EV technology and EV incentives.

## Colorado

We determined that the current income tax credit in Colorado is too complicated for dealers to clearly advertise or promote, and that information and knowledge about EVs in Colorado is not significantly better than elsewhere.

Model results suggest that this can greatly impact deployment.



States with substantially better **legitimation** and **knowledge development and diffusion** actions seem to have significantly higher EV penetration.

	Dependent variable:	
	Vehicles Sold	
Legitimation	0.024***	-0.006
InfD	-0.046***	-0.009
MarketFormation	-0.019	-0.024
EntExp	0.01	-0.01
KnowD	0.049***	-0.009
PosEx	-0.034**	-0.013
ResMob	-0.023	-0.014
StateCALIFORNIA	1.705***	-0.496
StateCOLORADO	-0.119	-0.242
StateCONNECTICUT	-0.571**	-0.242
StateFLORIDA	0.854***	-0.243
StateGEORGIA	1.319***	-0.241
StateILLINOIS	0.38	-0.242
StateINDIANA	-0.848***	-0.243
StateMAINE	-1.787***	-0.245
StateMARYLAND	0.207	-0.241
StateMASSACHUSETTS	-0.064	-0.244
StateMICHIGAN	0.517*	-0.265
StateMINNESOTA	-0.560**	-0.242
StateNEW JERSEY	0.293	-0.241
StateNEW MEXICO	-1.883***	-0.245
StateNEW YORK	0.012	-0.282
StateNORTH CAROLINA	-0.251	-0.242
StateOREGON	0.309	-0.241
StateRHODE ISLAND	-2.351***	-0.247
StateTENNESSEE	-0.434*	-0.242
StateTEXAS	0.685***	-0.244
StateVERMONT	-1.604***	-0.244
StateVIRGINIA	-0.155	-0.242
StateWASHINGTON	0.985***	-0.243
Constant	4.148***	-0.172
Observations	1,368	
Log Likelihood	-6,986.19	
theta	0.608*** (0.023)	
Akaike Inf. Crit.	14,034.38	

Note: \*p<0.1; \*\*p<0.05; \*\*\*p<0.01