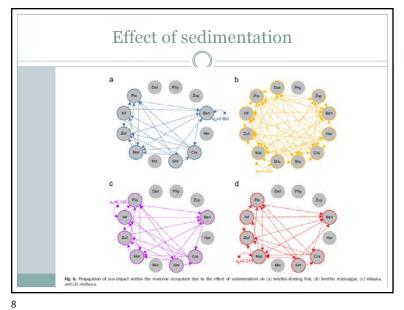
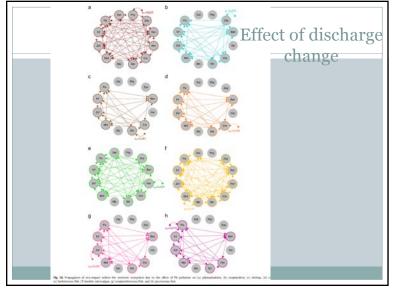
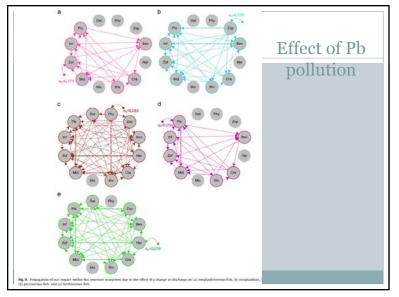
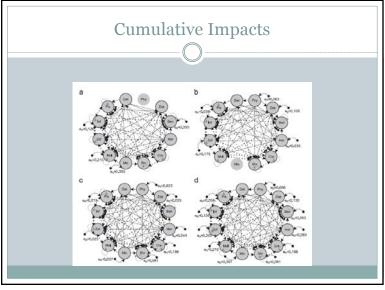


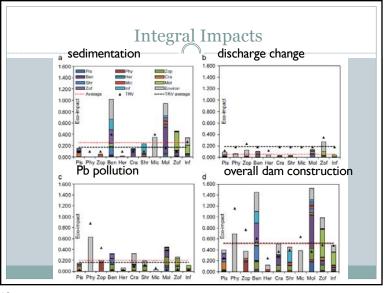
able 3 alculation of the initial eco-impacts	e 3 lation of the initial eco-impacts caused by dam construction.								
Environmental factor	Measurement of factors before/after damming	*Change of factor (Δl_x)	^b Probability (P _x)	Vulnerable compartment/ Vulnerability (Vix)	Initial eco-impact (es				
Sedimentation (the amount of sediment trapped in a year)	6.02 /9.20 10 ⁸ m ³	$\frac{ I_{bod} - I_{0ted} }{\max(I_{bed} - I_{0ted})} = \frac{ S20 - 602 }{920}$	1.00	Ben/1.00 Mic/1.00 Inf/0.60 Mol/0.36	0.350 0.350 0.210 0.126				
Mean discharge in dry/wet season	1699 /2283 m ³ s ⁻¹	$\frac{ I_{adic} - I_{0dic} }{\max(I_{adic} - I_{0dic})} = \frac{12283 - 1609}{2283}$	0.70	Zof/1.00 Zop/0.60 Phy/0.36 Pis/0.22 Her/0.22	0.120 0.175 0.105 0.063 0.039 0.039				
Pb content in water body	0.006 /0.025 mg kg ⁻¹	$\frac{ I_{qb} - I_{qpb} }{\max(I_{qbb} - I_{qpb})} = \frac{\alpha \cos \alpha \cos \alpha}{\alpha \cos \beta}$	0.82	Hai (022 Phy/100 Zop/0.47 Shr/0.13 Cra/0.09 Her/0.07 Mic/0.06 Zof/0.04 Pis/0.03	0.039 0.623 0.293 0.081 0.056 0.044 0.037 0.025 0.019				

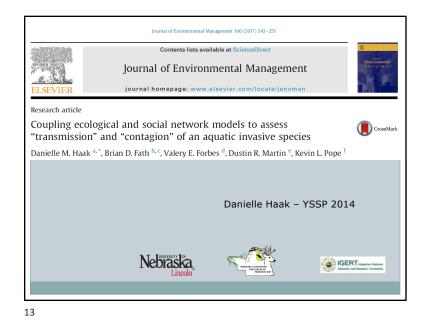


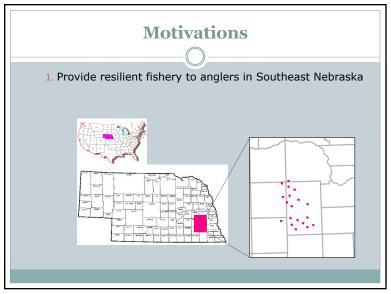


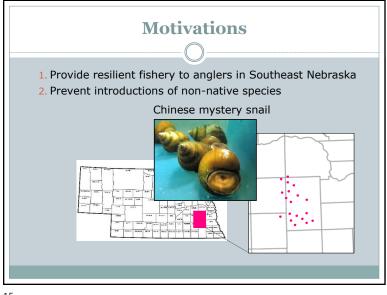


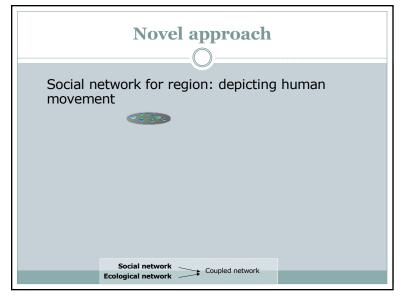


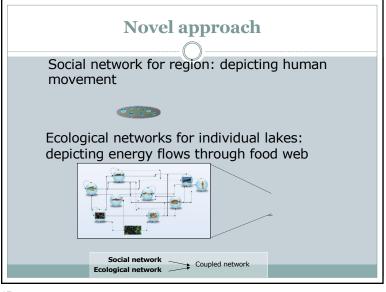


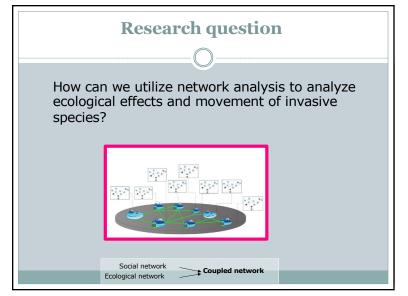


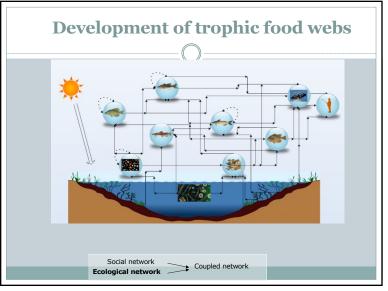


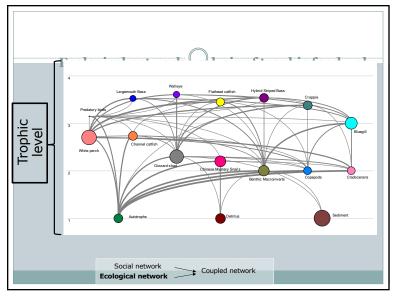


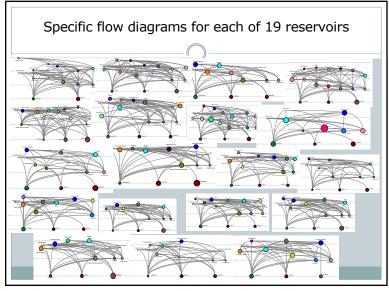


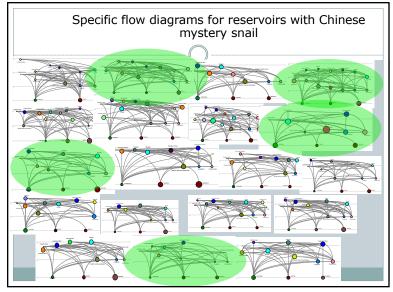


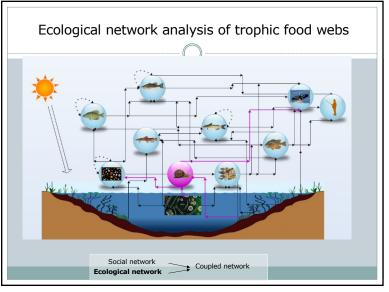


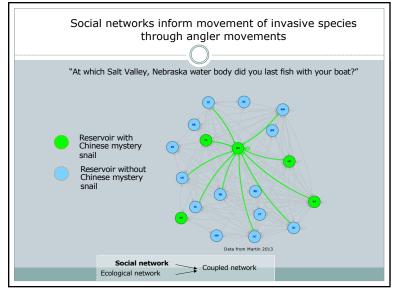


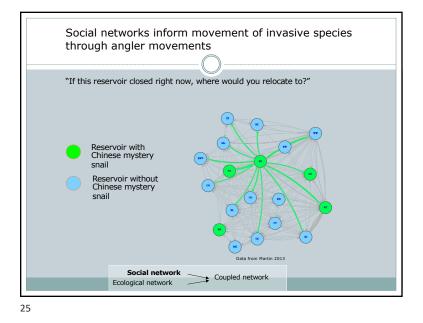


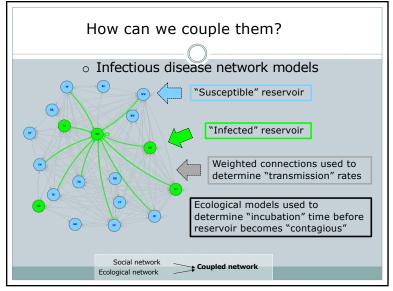


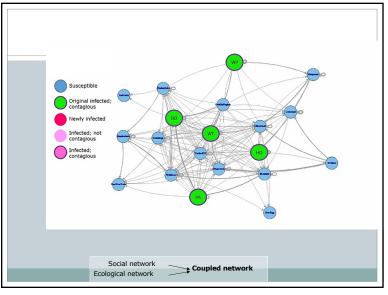


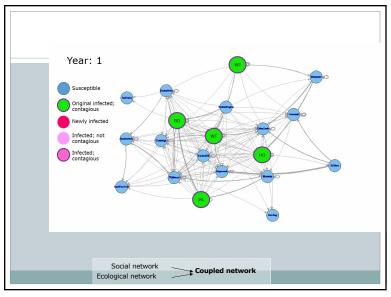


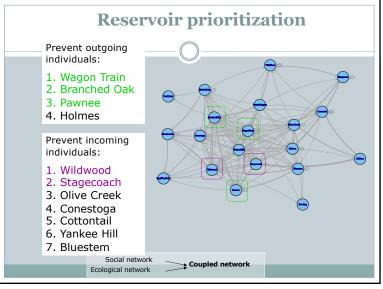


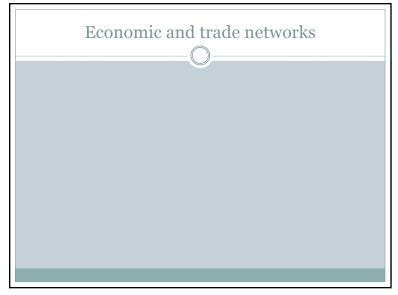


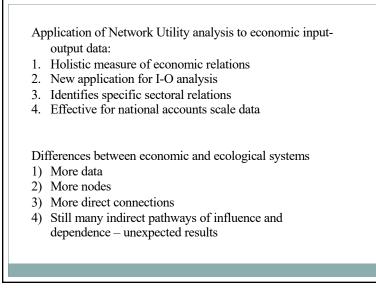


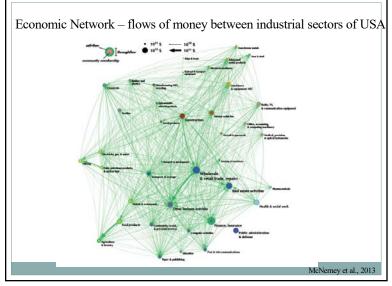




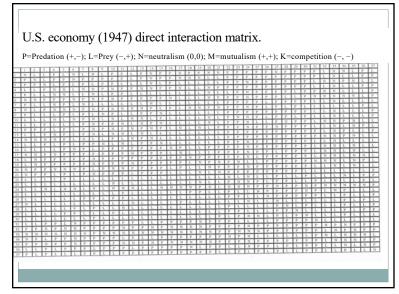








7 sectors:			
agriculture	fuels	other trans equip	finance
food	rubber	science equip	real estate
textile mill	leather	manufacturing	business services
apparel	stone, glass	utilities	repair services
lumber	primary metals	railroad	nonprofits
furniture	fabricated metals	ocean	amusements
paper	machinery	other trans	scrap industries
printing	electric motors	trade	restaurants
chemicals	motor vehicles	communications	new construction



Direct	and Indirect	t relations in	U.S.		
Leont	ief 1947, 37	sector I-O Ta	able		
	Neutralism	Exploitation	Exploited	Competition	Mutualism
	Neutralism (N)	Exploitation (P)	Exploited (L)	Competition (K)	Mutualism (M)

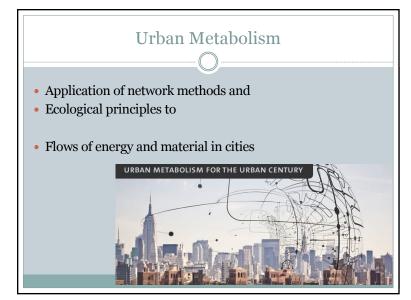
Changes between relation types from direct to integral in U.S.

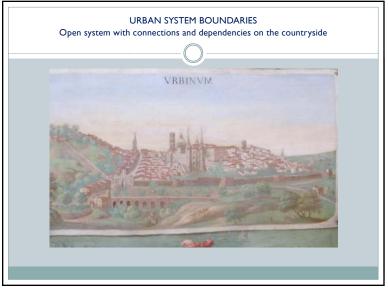
P→ P	L→ L	$N \rightarrow M$	$N \rightarrow P$	N→ L	$N \rightarrow K$	P→ L	P→ K	P→ M	$L \rightarrow P$	$L \rightarrow K$	L→ M
413	413	139	27	27	88	6	72	53	6	72	53

Integral

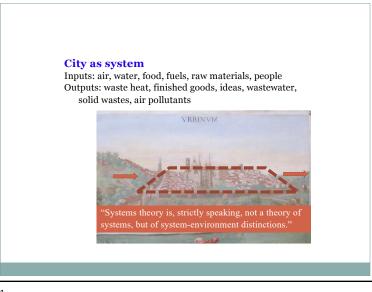
Sector	Mutualism	Predation	Prey	Competition
agriculture	9	14	6	8
food	7	17	5	8
textile mill	3	17	12	5
Apparel	7	15	8	7
Lumber	5	8	15	9
Furniture	4	15	7	11
Paper	6	6	22	3
Sector with	com	ualism: print petition: stor ation: other t	ne/glass	& amusements

petroleum and coal food rubber products textile machinery printin motor vehicles metal other trans. comm misc. manufacture nonpr	ng s nunications	Mutualistic with: agriculture apparel furniture leather electrical professional equip. electric power scrap ind. restaurants	Competition with: lumber and wood paper chemicals stone and glass fabricated metals business services amusements undistributed
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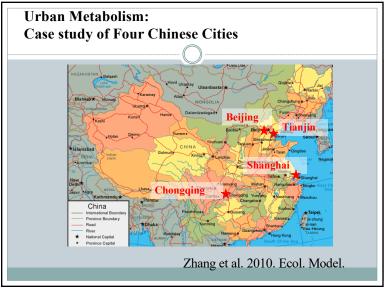


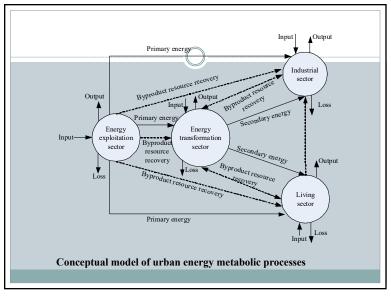




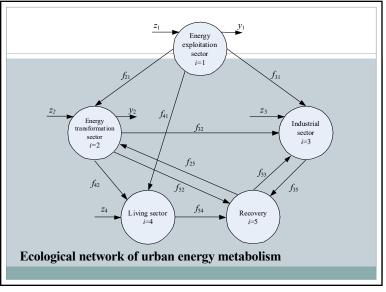












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							Į					
B	eijing	$(F_{\rm B})$	_				Sl	hangl	nai (F		_	
	1	2	3	4	5			1	2	3	4	5
	0	0	0	0	0	1	l	0	0	0	0	0
	0.087	0	0	0	0		2	0.093	0	0	0	1.036
	0	1.929	0	0	0		3	0.009	2.946	0	0	0.008
	0	0.080	0	0	0	4	L	0	0.143	0	0	0
	0	0	0	0	0		5	0	0.004	1.032	0.008	0
Tianjin $(F_{\rm T})$ Chonge									qing ($F_{\rm C}$)		
	1	2	3	4	5	ΙΓ		1	2	3	4	5
	0	0	0	0	0		1	0	0	0	0	0
	0.517	0	0	0	0.080		2	1.425	0	0	0	0.082
	0.024	1.045	0	0	0.119		3	1.514	0.627	0	0	0.346
	0	0.175	0	0	0		4	0.106	0	0	0	0
		0	0.199	0	0		5	0	0.001	0.427	0	0

