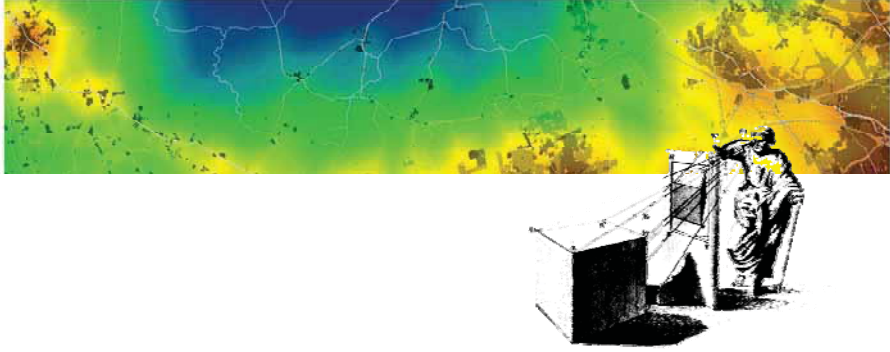


UCL

DEVELOPMENT OF AN URBAN GROWTH MODEL

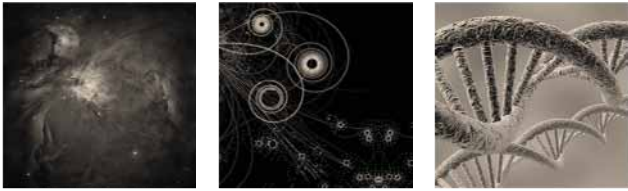
USING HIGH-RESOLUTION HISTORICAL DATA



KIRIL STANILOV, APRIL 2010 *CASA*
FUNDED BY EC'S FP7 MARIE CURIE FELLOWSHIP

UCL


ADVANCES IN *ASTRONOMY PHYSICS GENETICS*



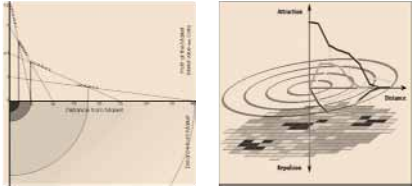
KIRIL STANILOV, APRIL 2010 *CASA*

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ADVANCES IN *ASTRONOMY PHYSICS GENETICS*




INQUIRIES IN *URBAN MODELING*



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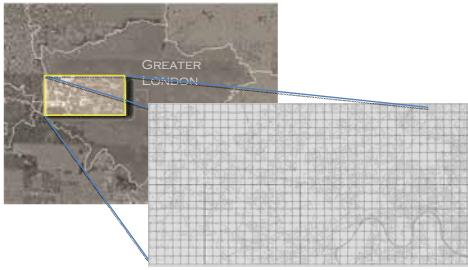
DATA



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DATA



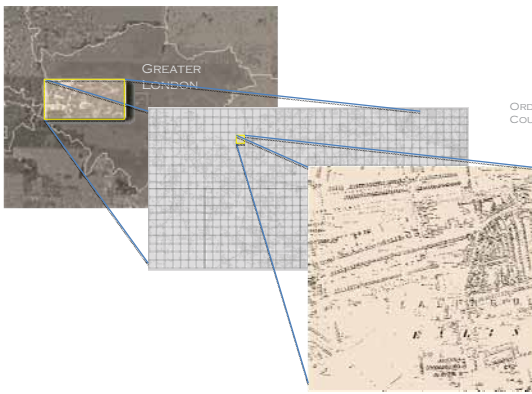
GREATER LONDON

ORDNANCE SURVEY
COUNTY SERIES 1:2,500

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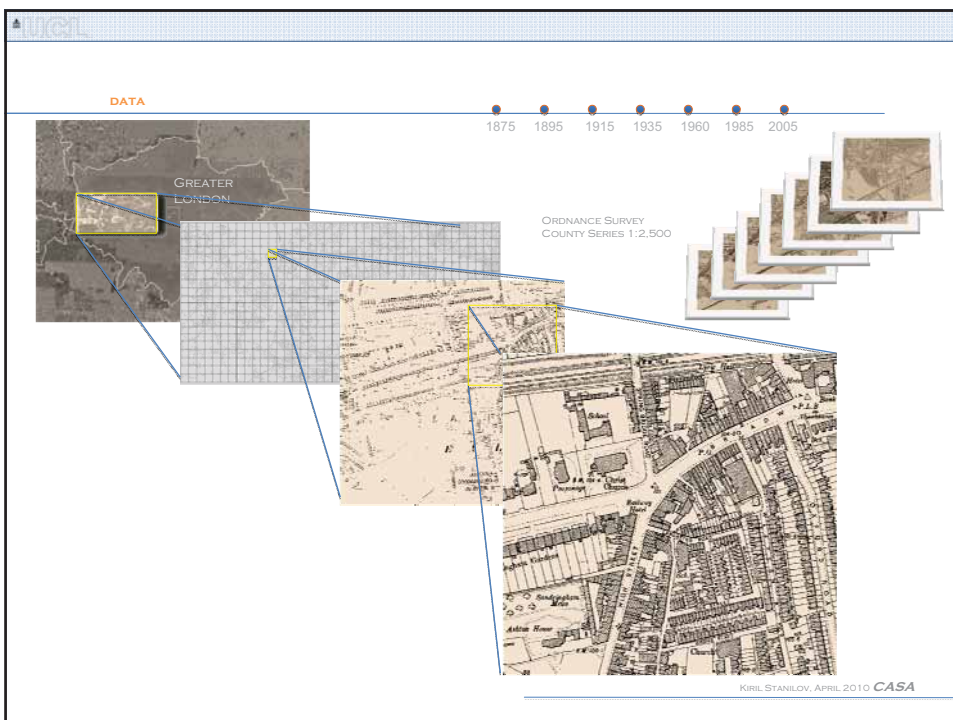
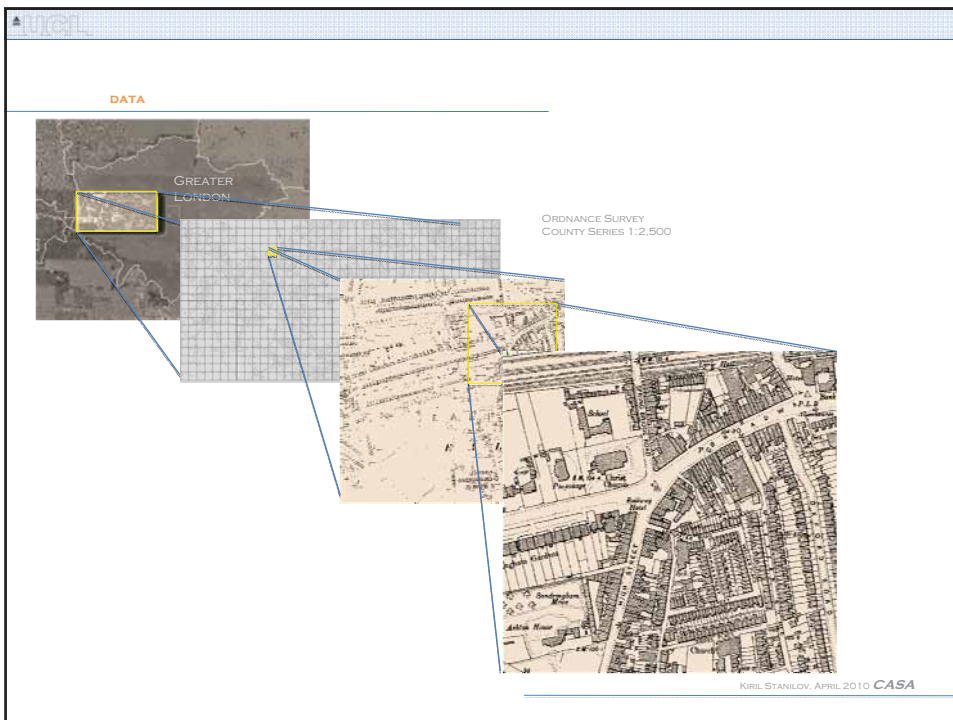
DATA



GREATER LONDON

ORDNANCE SURVEY
COUNTY SERIES 1:2,500

KIRIL STANILOV, APRIL 2010 *CASA*







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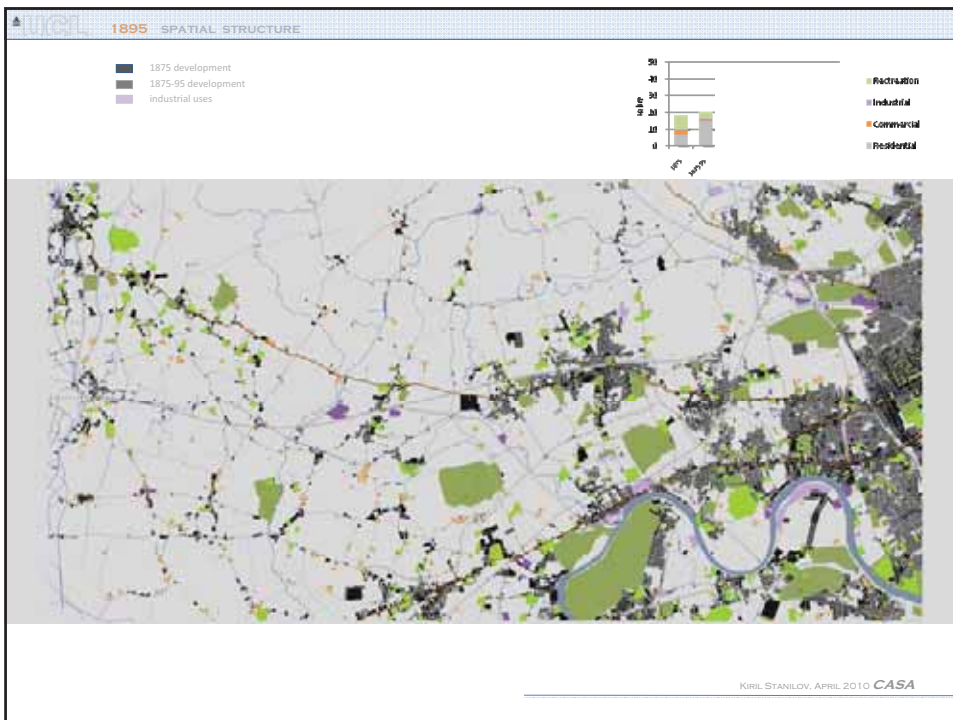
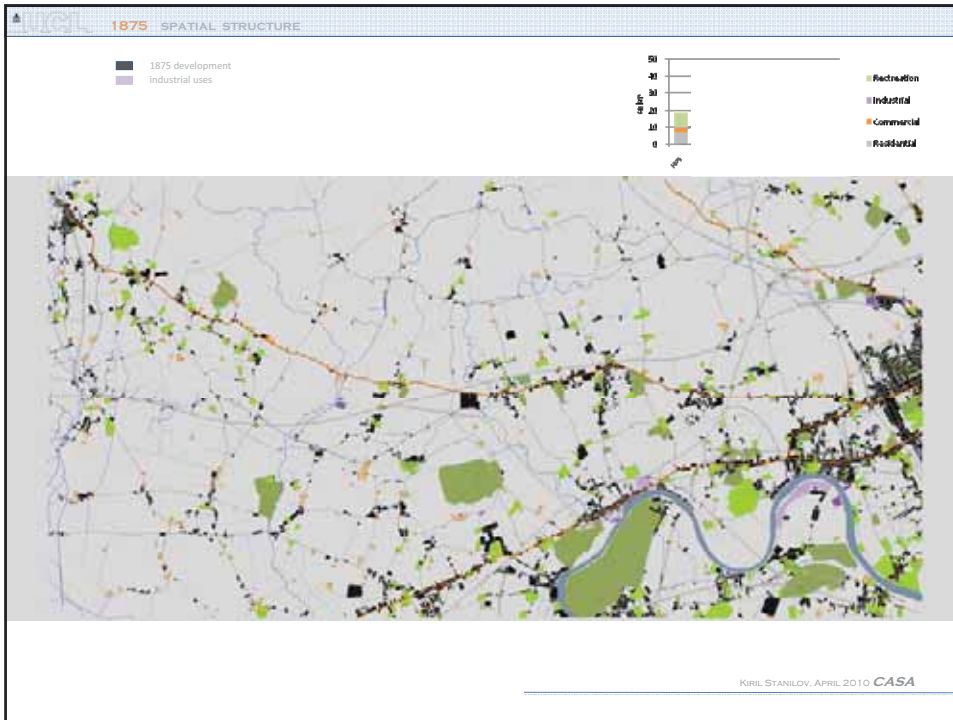
LAND USE CLASSIFICATION

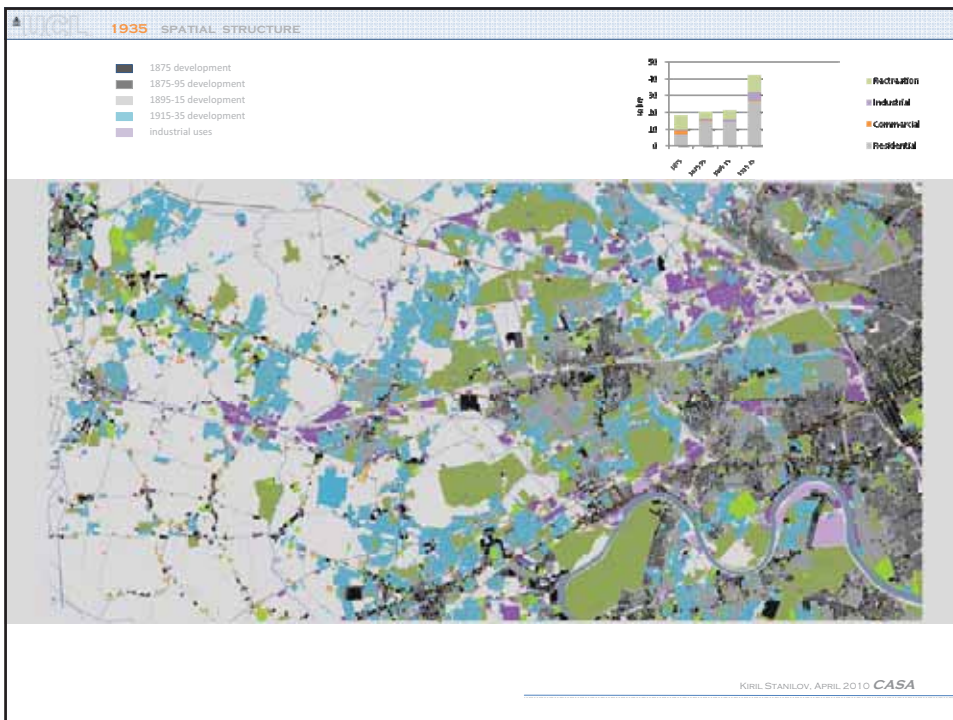
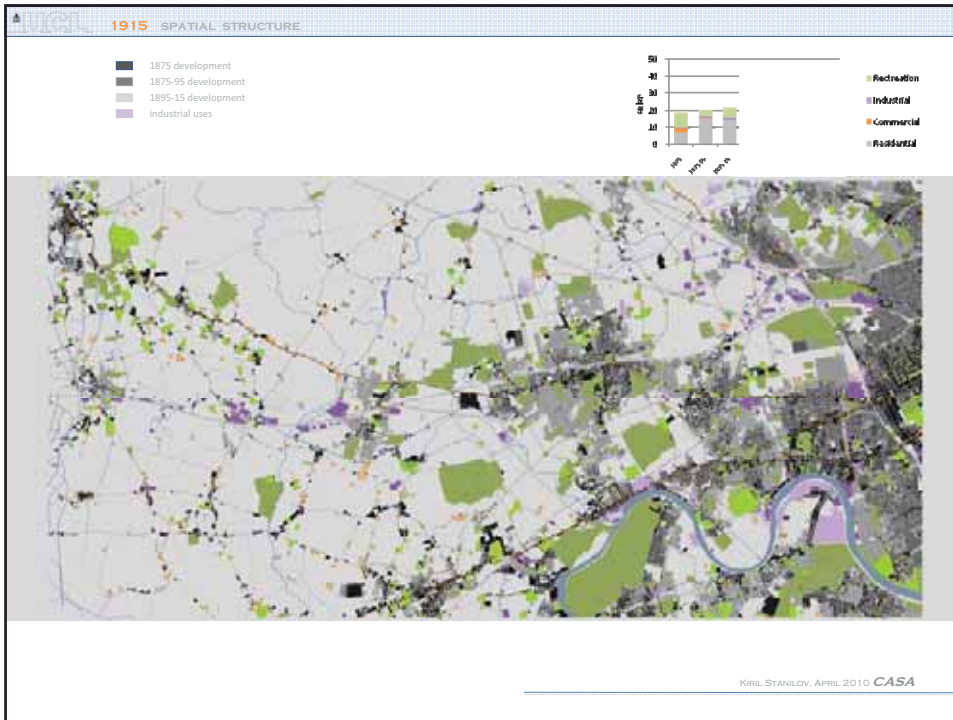
used in model	digitized in GIS	interpreted from OS maps	used in model	digitized in GIS	interpreted from OS maps
residential	apartments	low and mid-rise apartments (2 - 6 stories)	commercial	old fabric	old fabric
	high-rise apartments	high-rise apartments (over 6 stories)		general	general
	cottage houses	cottage houses		retail	retail
	terrace houses	terrace houses		entertainment	public houses
	mews	mews		private houses	
	semi-detached houses	semi-detached houses		dance halls	
	small lot detached houses	small lot detached houses	garages	garages	
	detached houses	detached houses	office	office	
	lodges	lodge	industrial	industrial	works
		inn			mills
		hotel			wharf
		city hall			docks
	institutional public	library	library		depot
		police station	police station		brewery
		fire station	fire station		malthouse
		post office	post office	utilities	water works
		hospital	hospital		gas works
		asylum	asylum		sewer works
almshouse		almshouse	recreation	parcs	parcs
penitentiary		penitentiary			commons
prison		prison			grove
museum		museum		cemeteries	cemeteries
		convalescent home		burial grounds	
educational		military barracks	military barracks	recreation	golf course
	daycare	daycare		athletic club	
	school	school		recreation ground	
	college	college		playground	
religious	university	university		stadia	
	church	church	airports	airports	
	convent	convent	transportation	roads	
	rectory	rectory		roads	
	parish	parish		railway lines	
	synagogue	synagogue	water	rivers	
temple	temple		canals		
hermitage	hermitage	soil	estates		
			farms	farms	
			vacant	undeveloped	undeveloped
				allotment gardens	allotment gardens
				nurseries	nurseries
				cleared	cleared

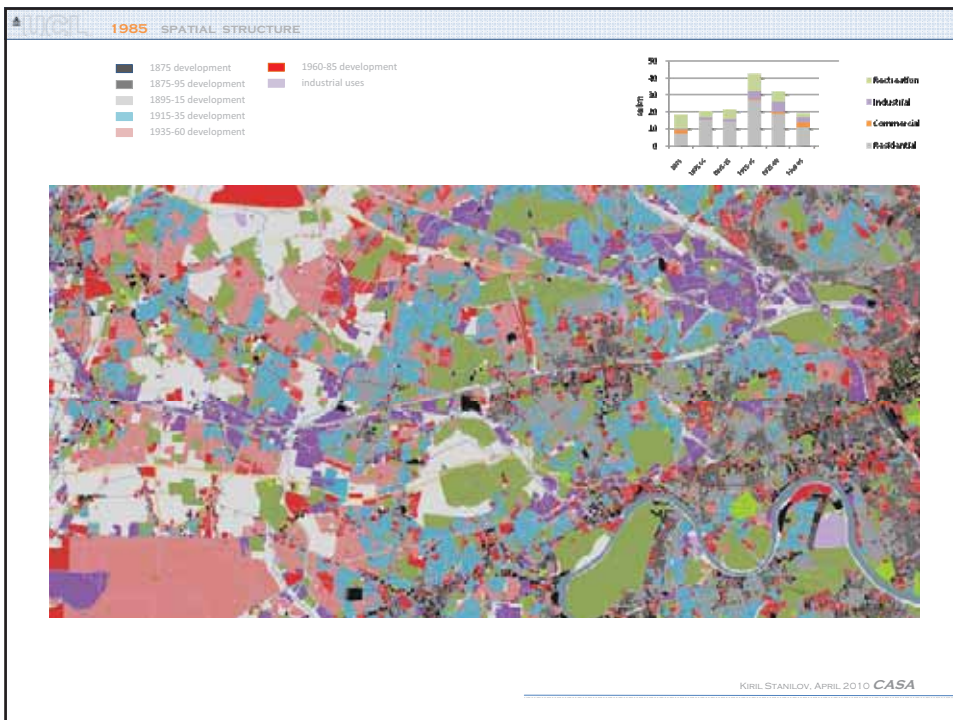
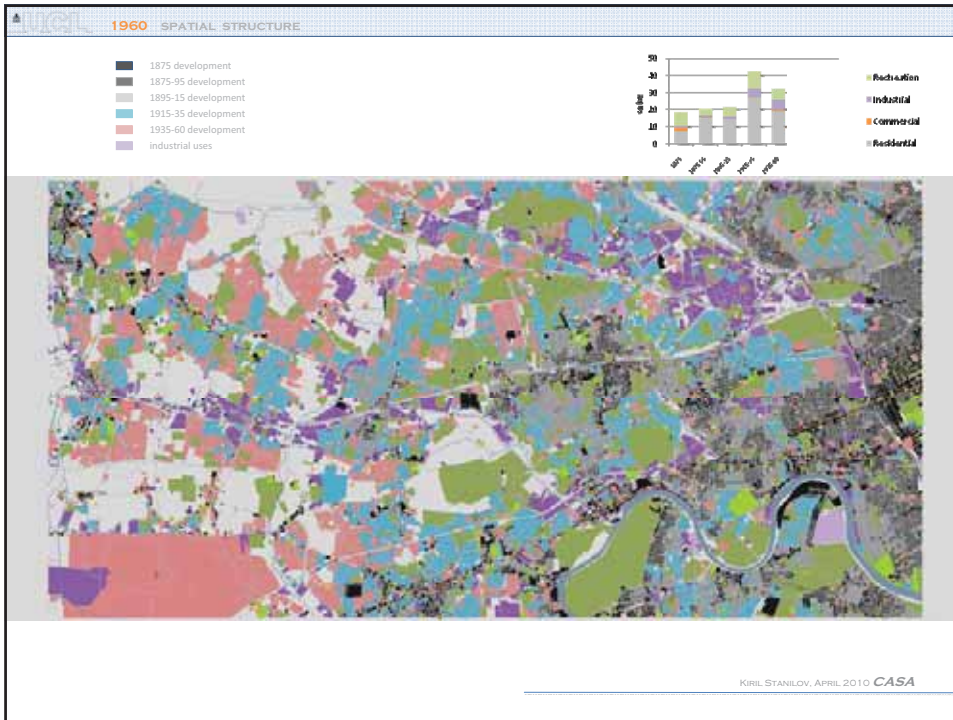
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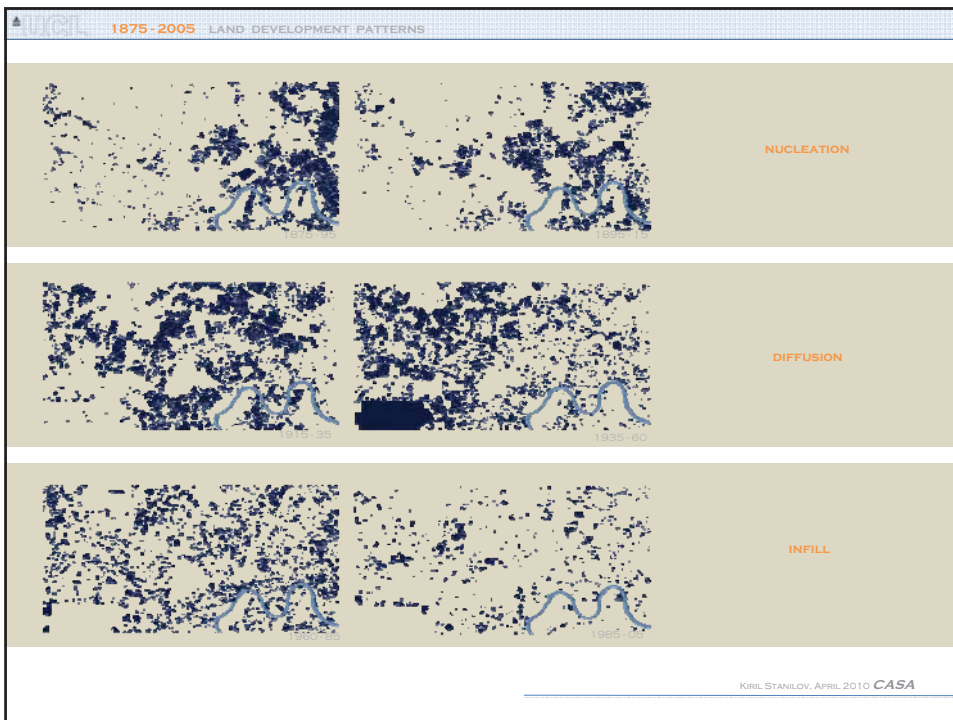
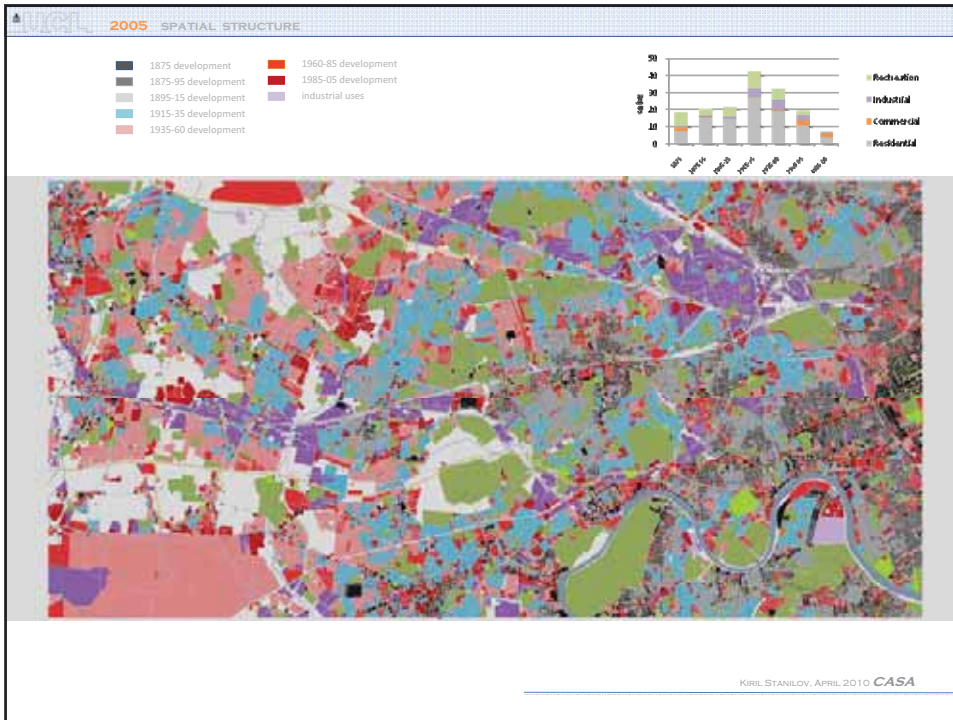
UCL 1875 - 2005 RESIDENTIAL USES

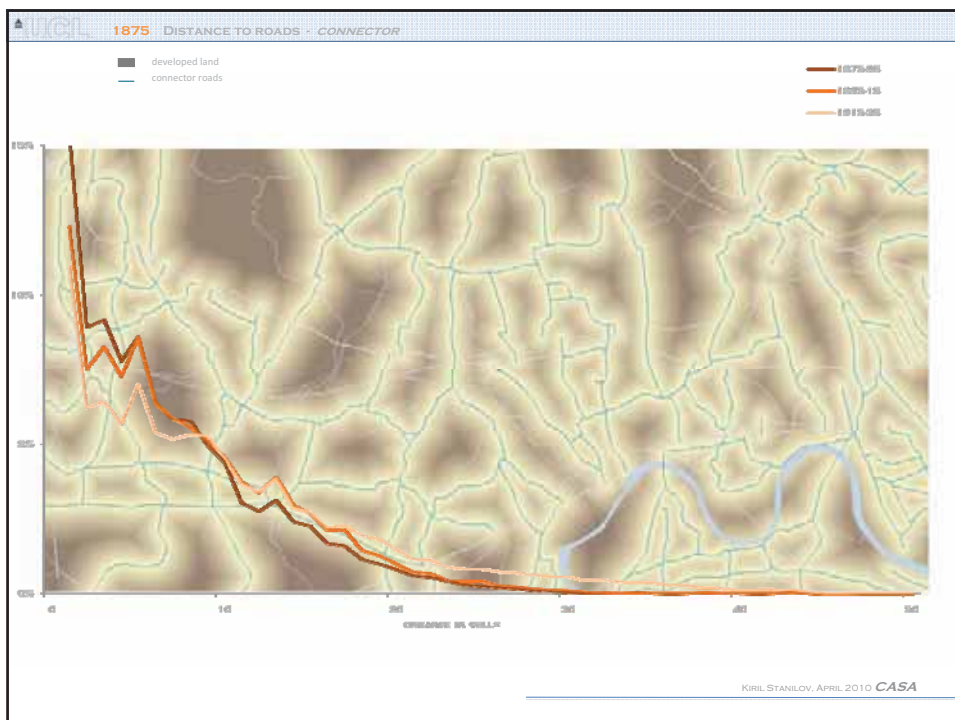
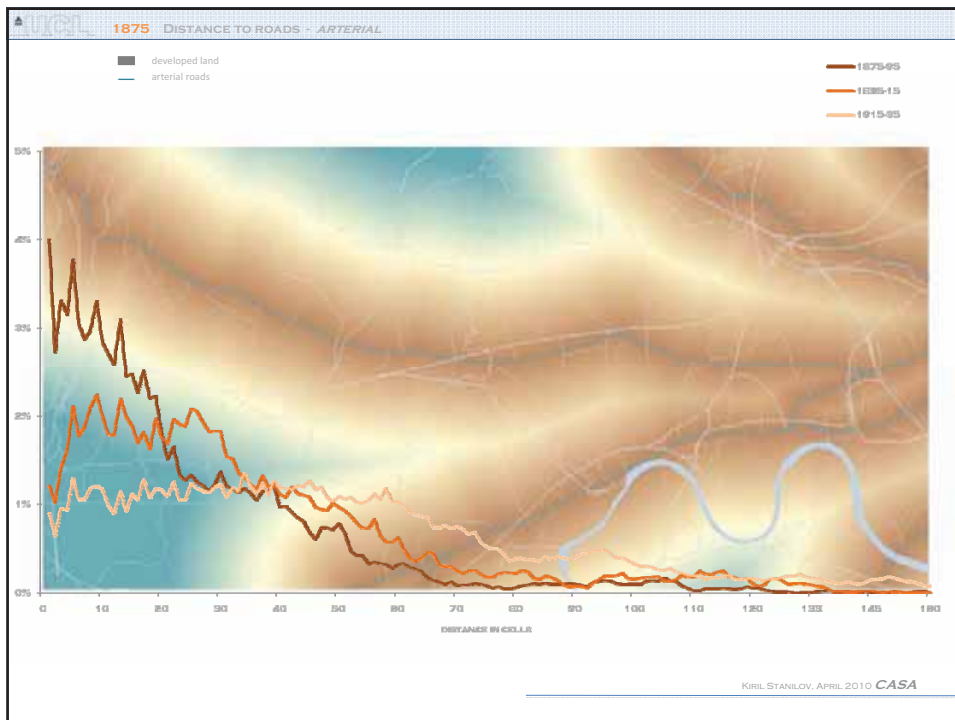
	<i>TERRACED</i> HOUSING
	<i>SEMI-DETACHED</i> HOUSING
	<i>DETACHED</i> HOUSING
	<i>MULTI - FAMILY</i> HOUSING

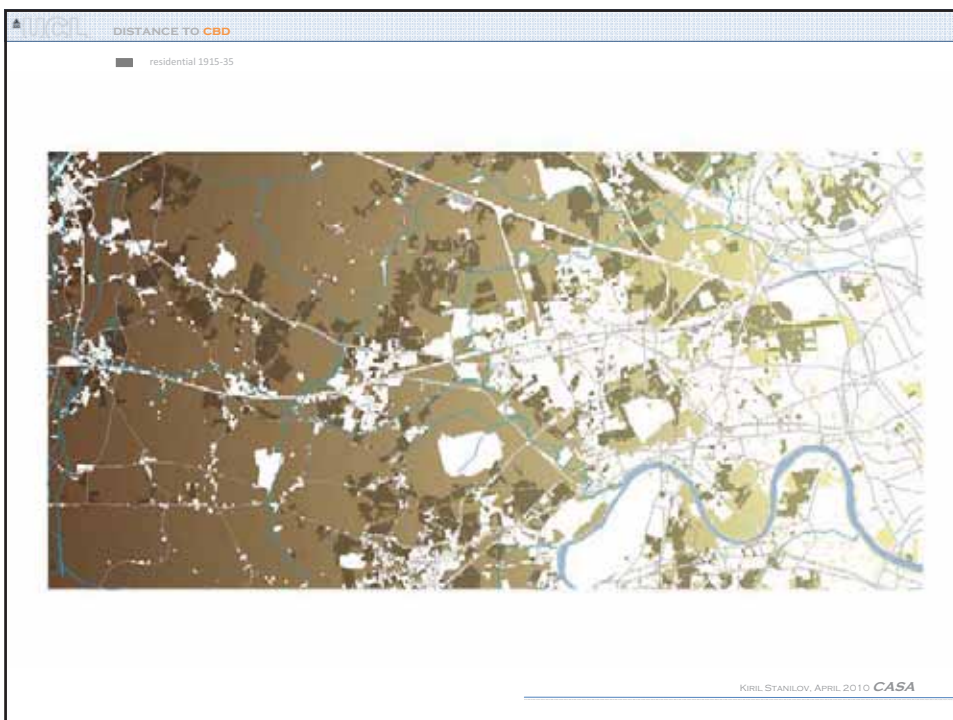






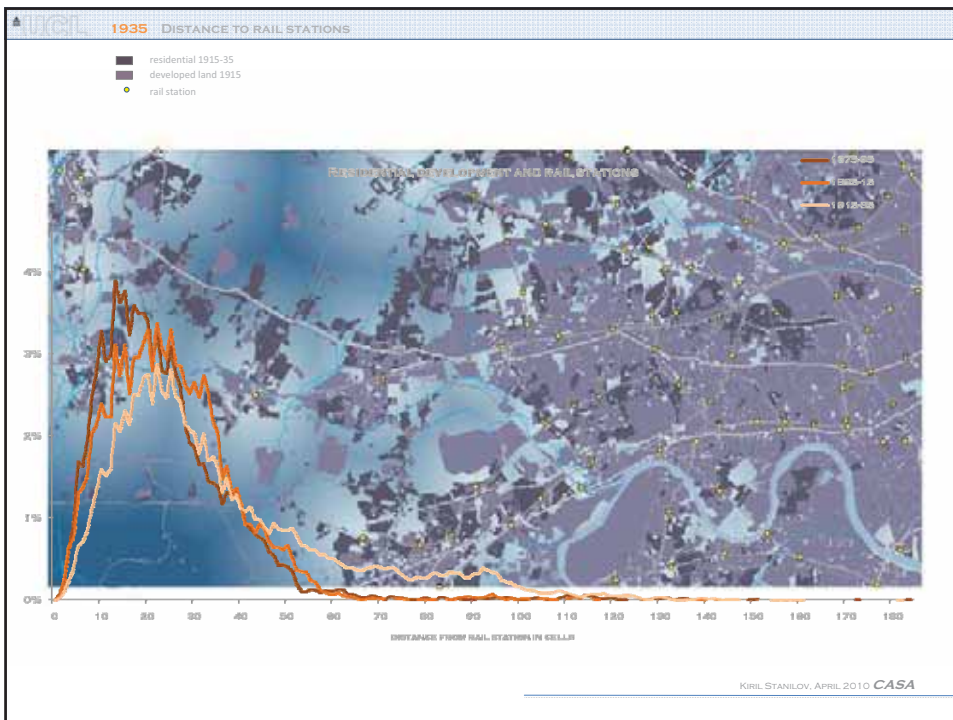


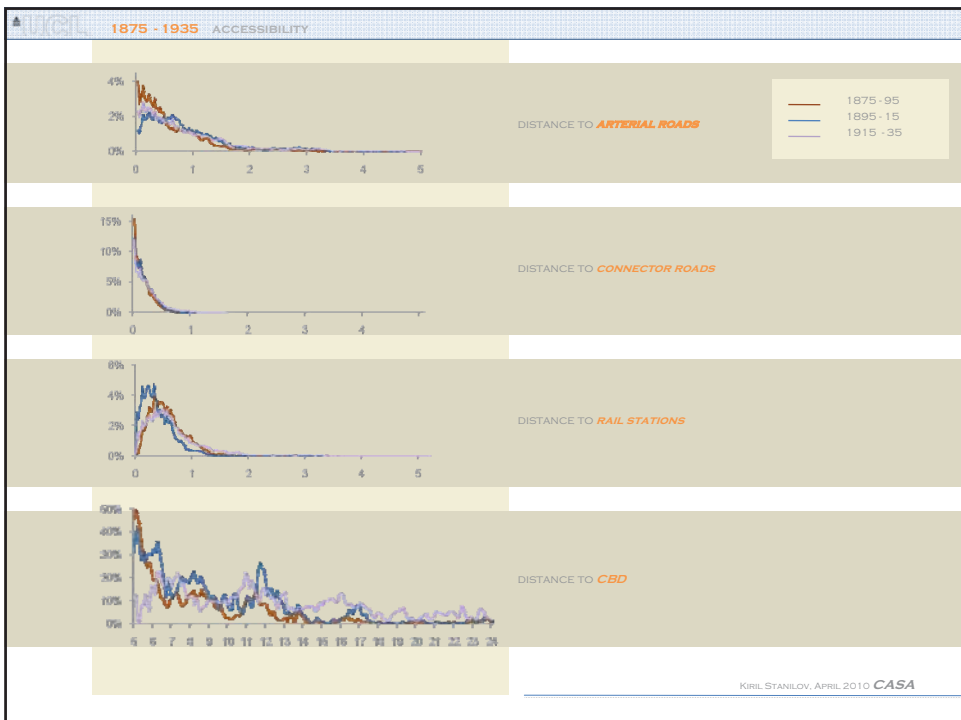
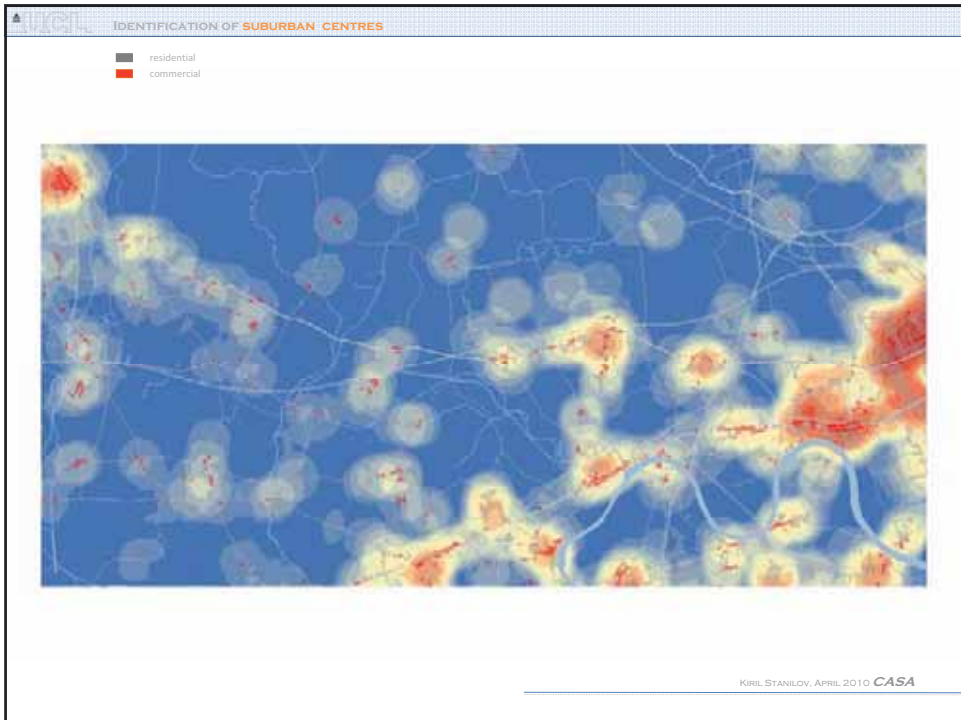


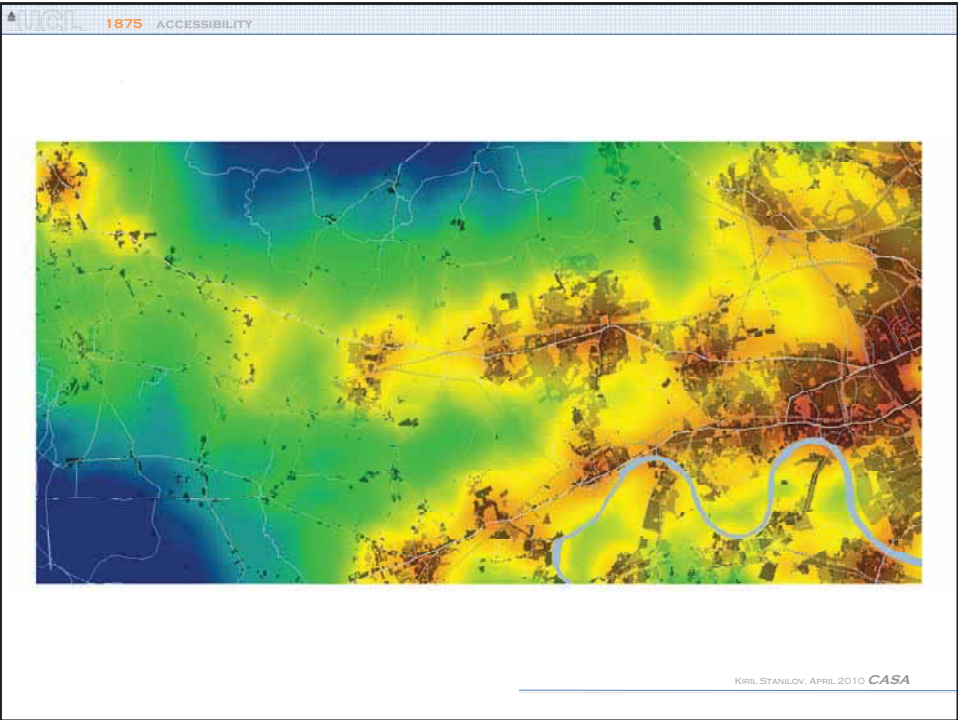
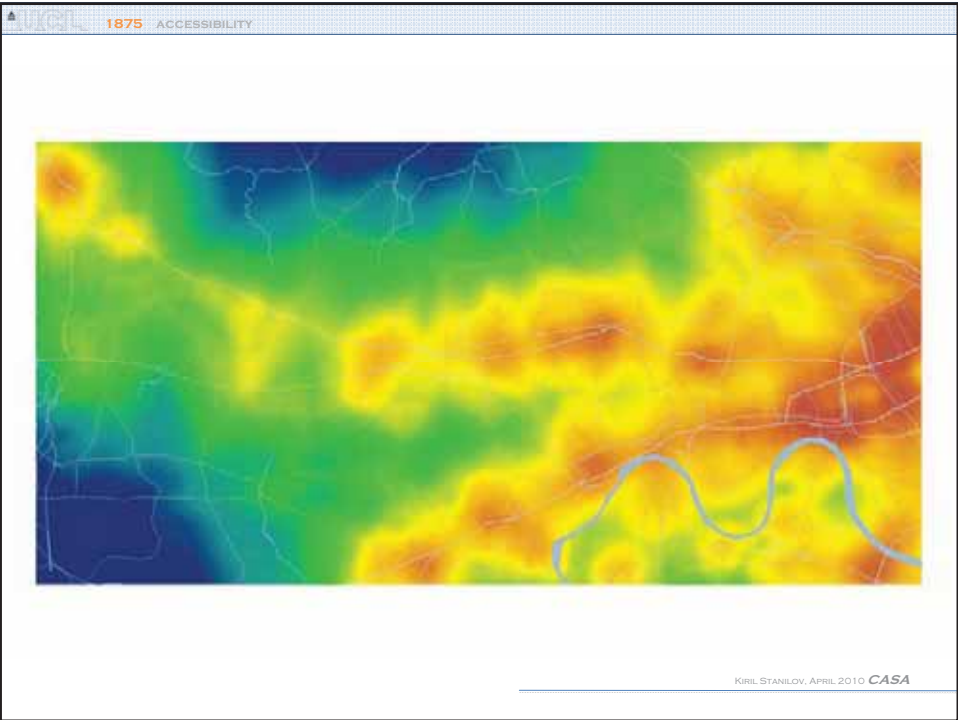


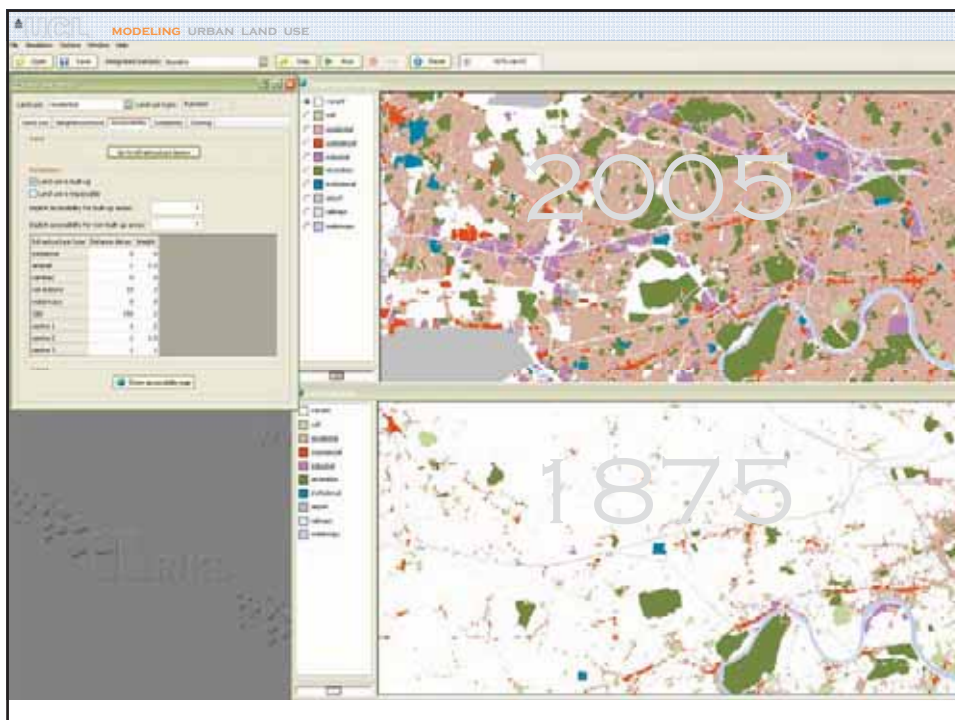
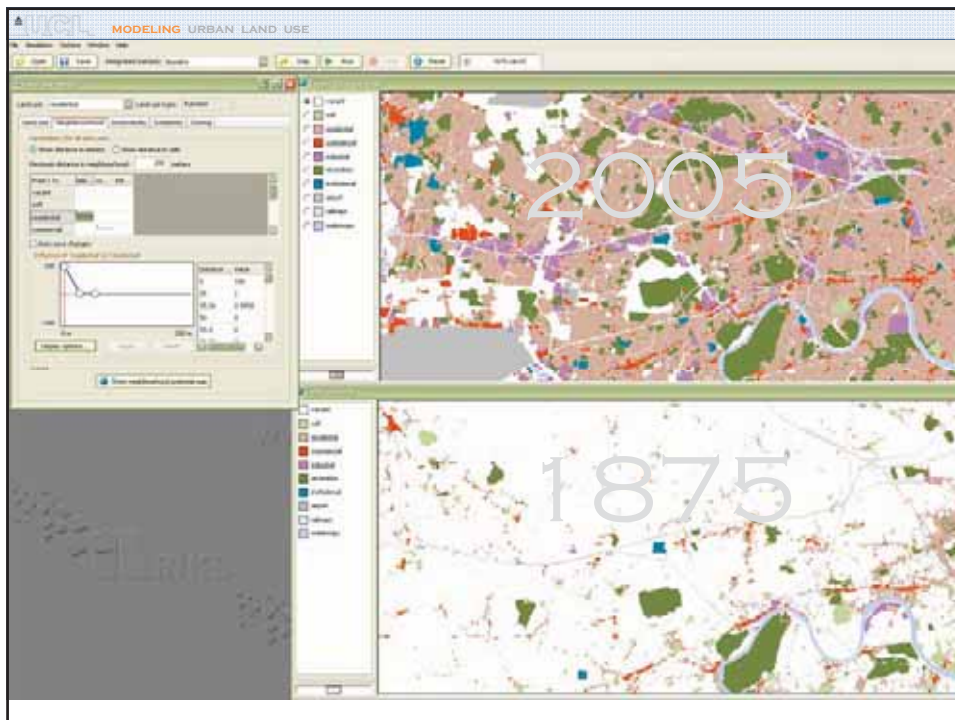


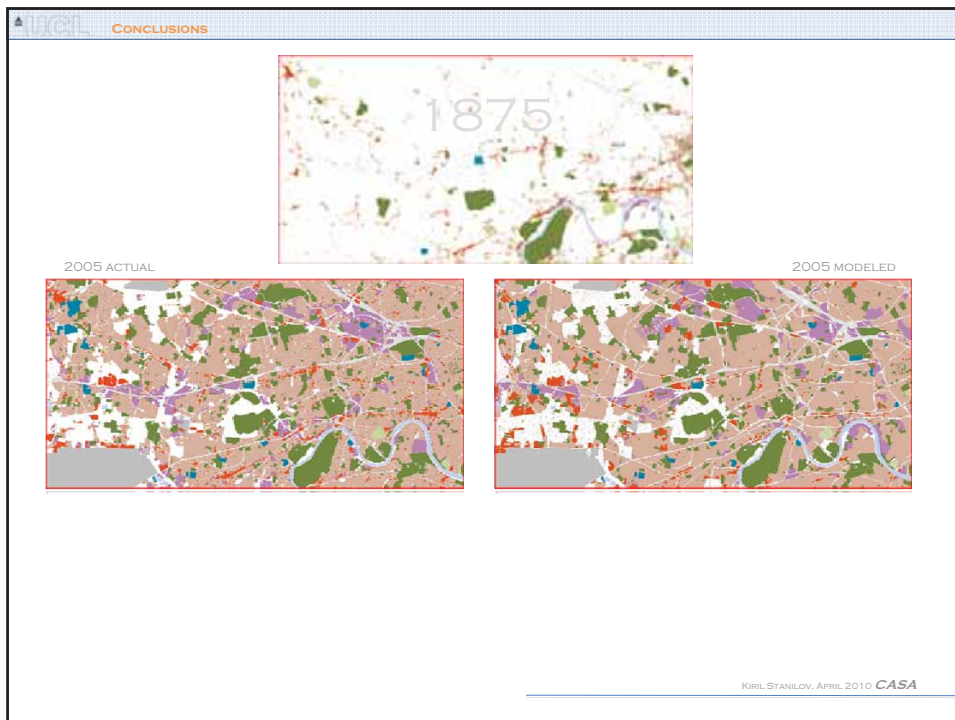
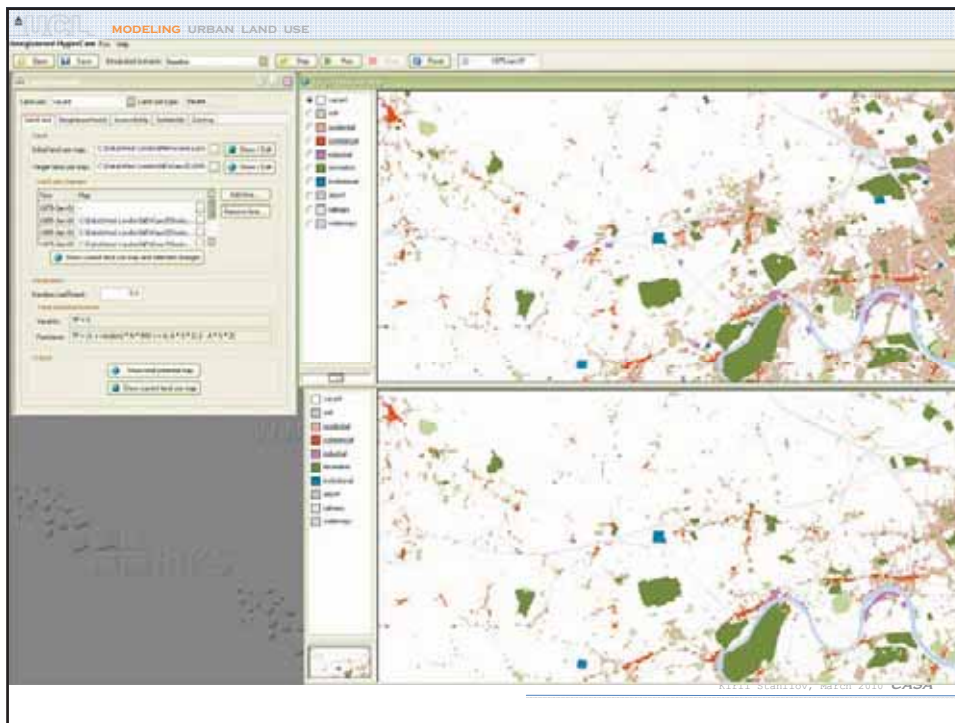


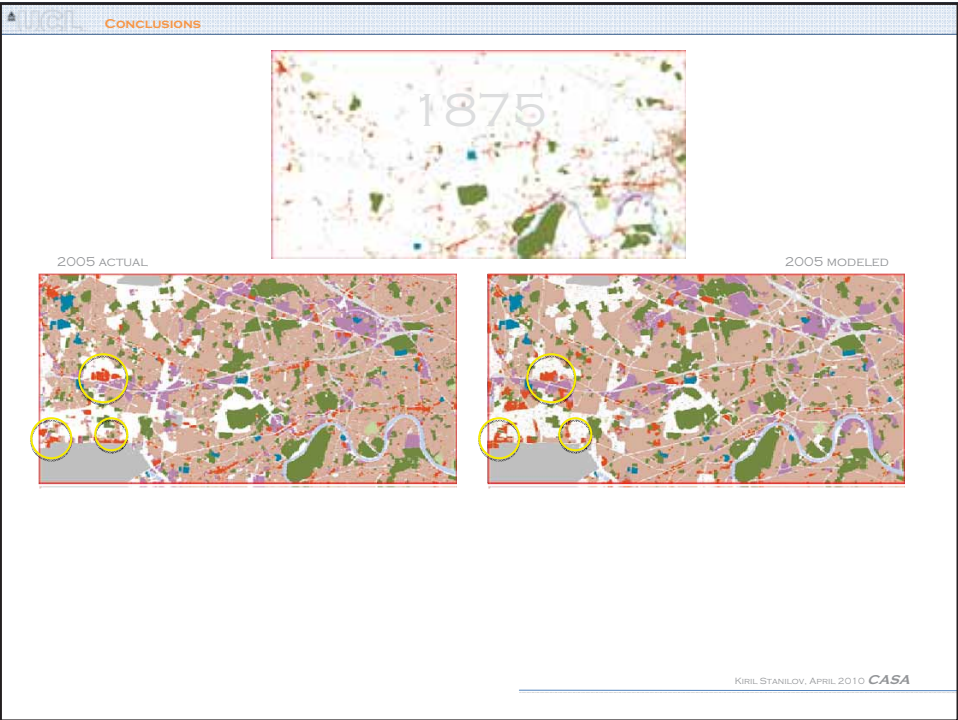
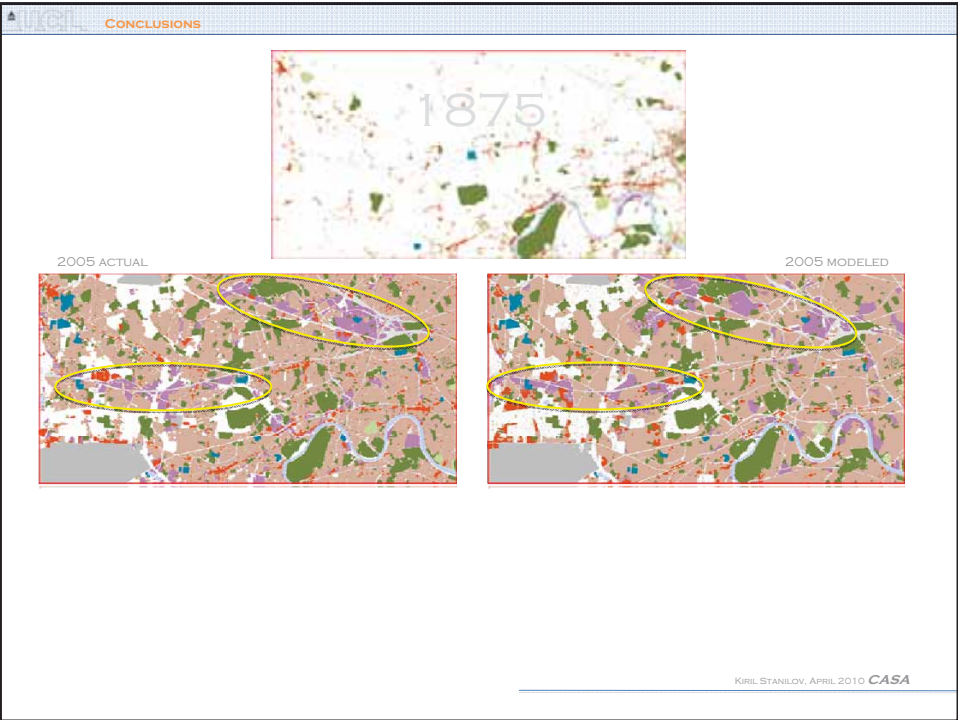












▲ UICL CONCLUSIONS

ACTUAL MODELED

1895

KIRIL STANILOV, APRIL 2010 *CASA*

▲ UICL CONCLUSIONS

ACTUAL MODELED

1895

1915

KIRIL STANILOV, APRIL 2010 *CASA*

UCL CONCLUSIONS

ACTUAL MODELED

					1895
					1915
					1935

KIRIL STANILOV, APRIL 2010 *CASA*

UCL CONCLUSIONS

ACTUAL MODELED

					1895
					1915
					1935
					1960

KIRIL STANILOV, APRIL 2010 *CASA*

CONCLUSIONS

ACTUAL MODELED

					1895
					1915
					1935
					1960
					1985

KIRIL STANILOV, APRIL 2010 *CASA*

CONCLUSIONS

ACTUAL MODELED

					1895
					1915
					1935
					1960
					1985
					2005