





RAPID PLANNING www.rapid-planning.net
HOW DOES IT WORK ? 3 TASKS
 Building a model of Kigali City of Kigali: Nyarugenge + "Rest of Kigali" Modelling Population development Water, Wastewater Solid waste Energy Urban Food System
 2. Defining scenarios for Kigali Base case: Current situation Possible future scenarios:
3. Using the model to simulate the scenarios for Kigali

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HOW DOES IT WORK ? "RAPID PLANNING SIMULATOR" (MODULES)											
Sector		Module		Sector		Mo	dule				
A) Households Human population and building type	æ			Energy	Photovoltaic plant (Rooftop)		2333m p P Power line	Power supply node			
characterization	Human characterization	Population	Building type	Urban food/ agriculture	Market	Fertälzer source	DW FS				
watewater grey water, brown water and yellow water generation Energy and food consumption		Modules "• "Spa • Wate • Wass • Solid	itial unit": Con er: DWTP, tewater: grey I waste: Land	nsumption pat water treatme fill,	tterns ent, ow Water source	1000m DW>X>DW Drinking water pipeline	EEL Food production area	Wastewater collection no de			
Ressources generation (mixed and separated waste generation)	MW	• Ener • Urba	gy: PV plants, an Food: Agric	 cultural areas,	>XX>WW Wastewater pipeline	WW>>>WW Pumping station	WH GAS SL Activated sludge	WW Septic tank			
a) Non hoursholds		> EL > RES >OTH		Waste	O>wc Collection no des	MW EEL S&A Incineration					
Water consumption and wastewater and waste generation	DW CONTRACTOR	DW >		Misœllaneous blocks	Local/decentralized water source	Local/decentralized energy source					















