



Energy Management App:
*Thermal imaging & energy data
acquisition integrating **FLIR Thermal One**
& **LocalData** with MTC*



ABSTRACT

Residential and commercial buildings consume over 40 percent of the overall energy usage in the United States. These buildings represent a huge opportunity not only to reduce our nation's overall energy usage but also to energize local economic development.

Presented is a proposed business model with specific economic benefits for individuals, government, NGO, researchers, non-profits & alliance business partners.

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Introduction

MyTown.Center (MTC) is a cloud-based portal with focus on small & mid-size towns and cities. The objective is to use models, methods and tools originally developed for web-based collaborative project management to provide citizens in small and mid-size towns and cities with access to people, products, knowledge, tools & ideas to make our communities economically, environmentally, socially & culturally healthy and resilient. It introduces an independent self-sustaining model to accomplish three essential Sustainable Community objectives:



Open Government Data Acquisition & Visualization

Models, methods & tools to foster citizen activism for more transparent open government. Identify data resources to integrate with the following...



Green Habitat

Resources for energy management. Cost justification tools and simplification of the process to certify, submit and receive economic incentives to repair, restore, renew, & reduce the carbon footprint for homes and buildings.



Sustainable Economy

Connect certification professionals, product suppliers, financing resources and installers with home and building owners based on above data acquisition. Provide cost-justification, visualization & analytic tools, models and methods along with associated incentives to speed transaction decisions.

Our Approach

Though there are applications that address each of these categories independently, there is nothing that seamlessly integrates required applications in a single cloud-based portal with both public access and secure single-sign-on (SSO) for practice members and alliance partners. Our 2 decades experience developing a collaborative project management platform called the [iOffice®](#) gives us both insight and resources to achieve the outlined objectives with significant cost and time-to-market advantages.

We have sourced LocalData as an ideal partner with complimentary technology & focus. We also identified government and private organizations with mutual objectives and potential economic advantages.

Plan Overview

Project Stage:	Objectives & Deadlines
Partner Alignment:	Agreements in place and identify method to finance project – Nov. 15th
Beta Build:	LocalData/FLIR Thermal One Integration With MTC - December 2015
Beta Launch:	POC implementation in selective test markets – 1 st Qtr. 2016

Objective is to have commercial product and go-to-market strategy in place for 2nd Qtr. 2016

POC Process

Beta Development Requirements (see <http://mytown.center/estar.htm>)

Location Data Acquisition



Adapt existing LocalData smart phone app to work with [FLIR Thermal One](#) to capture thermal image and data at specific street addresses.



Beta Practitioner Recruiting Recruit students in small towns and cities to canvass neighborhoods for thermal imaging. Could be way to fundraise. Can detail upon request.

Beta Training Model

Online iOffice® workroom provides web based tutorial using FLIR training content. Interactive forms provide method to associate thermal image capture with additional address specific info.

Thermal Imaging

Form relationship with FLIR to gain access to API and Thermal One products. FLIR already has in place data integration method. Cost is minimal. Anticipate many ways to cost-justify.

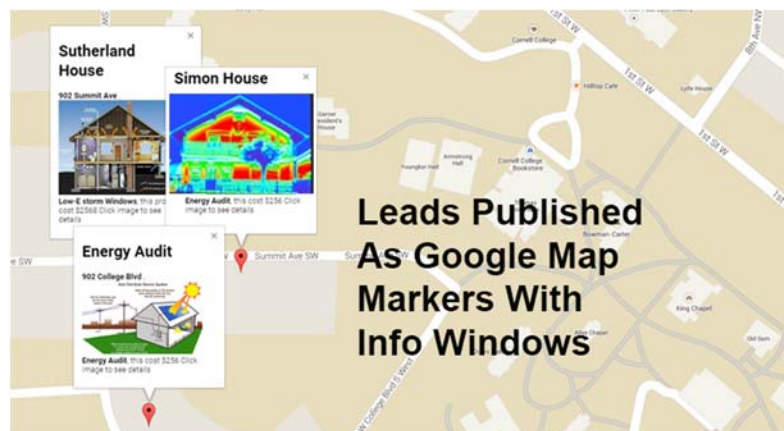


Data Dashboard



Adapt existing LocalData Dashboard as admin console to integrate with MTC. Primary use is to associate info window content including FLIR image & data with map marker. Align map point with alliance partner contacts as primary lead alerts method. Automate email alerts with onboarding to collaboration IM. (Rough concept: <http://mytown.center/places.htm>)

Geo Mapping Technique



Partner Coordination

Audit Certification	HERS, Habitat for Humanity, Energy Star, HUD (PATH), Utility Companies,
Product Information	MTC e-commerce provides product info, rebate, coupons & transaction process
Product Suppliers	Selective green manufacturers/suppliers
Financing	Credit Union/Banks Green Mortgage providers
Installers	Recruited contractors (Habitat for Humanity & from supplier eco system)

Collaboration Model

(<http://myioffice.com/pdf/iOfficeWP.pdf>)

Collaborative IM

Collaborative PM



Transaction Enablement

Rebates/Incentives

Forms submission

Finance Coordination

See e-commerce example:

<http://mytown.center/shop.htm>



COOPERATIVE BUYING NETWORK

Local Services - Sustainable Focus - Global Network
Recycle - Renew - Refurbish - Reuse - Replenish - Restore - Repair



See rough conceptual plan: <http://mytown.center/estar.htm>. Final plan detailing will be provided after agreements and project financing initiated. Project will be detailed as Statement of Work from MTC coordinated with LocalData.

Please see this example of alliance manufacturing partner collaborating with HERS rater. <http://mytown.center/envelope.htm> Active links provide information on HERS Resnet. There is also a link to a research paper showing cost justification for energy management retrofit with Low-E window panels.

For pilot we have financing provider, HERS rater, Installer lined up as well as students ready to canvass neighborhoods to build POC in Linn County, Iowa. We have a local council member ready to support the project and have strong ties to local economic development to assist. Method to scale is to use local newspapers to recruit homeowners and students. Detailed commercialization model will be provided when agreements and project financing is initiated.

This is a draft document provided as context for recent email and phone discussions.