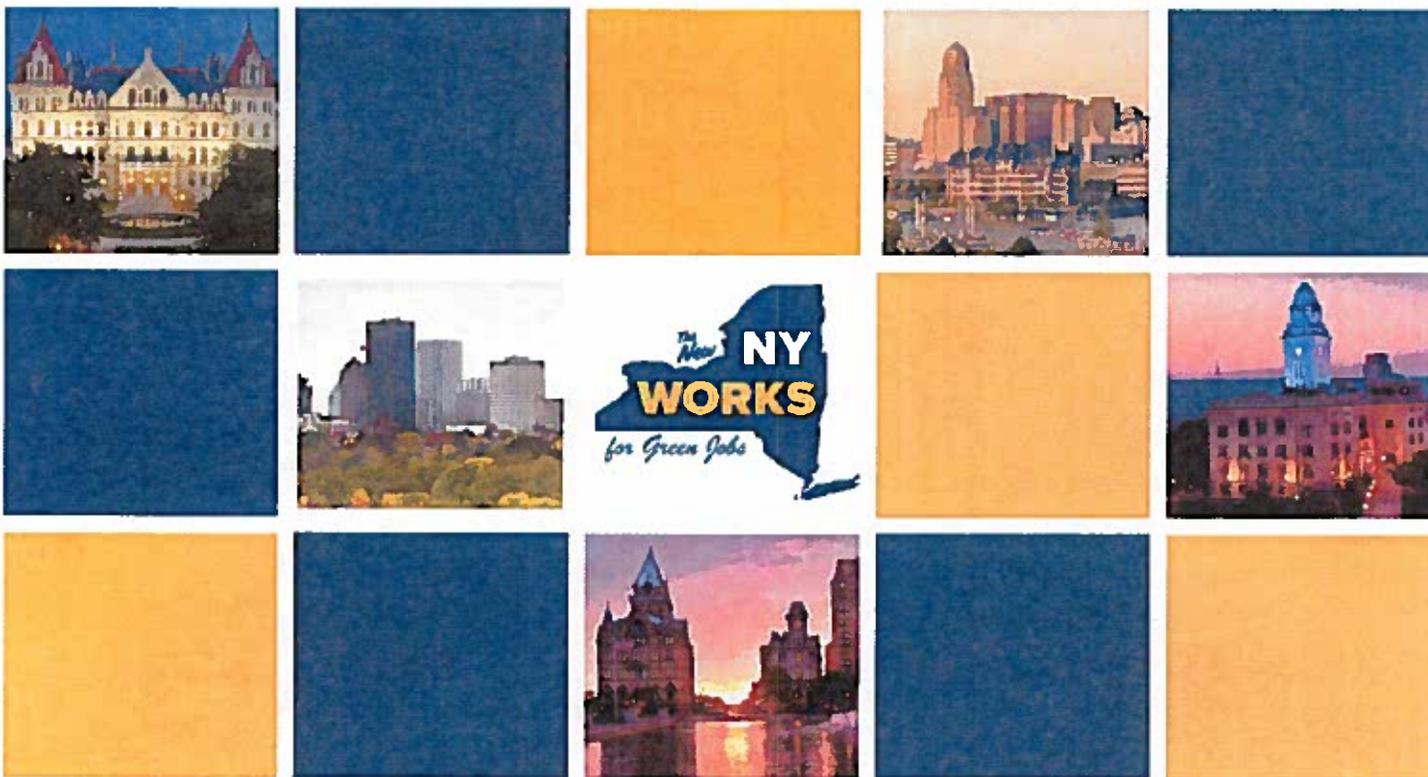


10/30/13

BuildSmartNY

Five Cities Energy Master Plans

Albany • Buffalo • Rochester • Syracuse • Yonkers



Energy Master Planning Kick-Off

October 30, 2013



AGENDA

Morning program

- 9:00 Introductions
- 9:10 Welcome and program overview
- 9: 25 Getting started
- 10:00 *Break*
- 10:15 Lessons from Arlington County and other exemplar plans
- 10:45 Relevant State and regional initiatives
- 11:30 City Presentations (Yonkers, Syracuse, Rochester)

Afternoon program

- 1:00 *Lunch*
- 2:00 City Presentations (Buffalo, Albany)
- 3:00 Closing panel discussion
- 4:00 Next steps

Jill Anderson

Chief of Staff & Director of Energy Policy
New York Power Authority

GOALS OF FIVE CITIES ENERGY MASTER PLANS

- Reduce energy consumption
- Strengthen reliability of cities' energy infrastructure
- Create jobs in clean energy industries
- Contribute to a cleaner environment



THESE WILL BE PLANS OF ACTION

Aspirational

Ambitious

Achievable

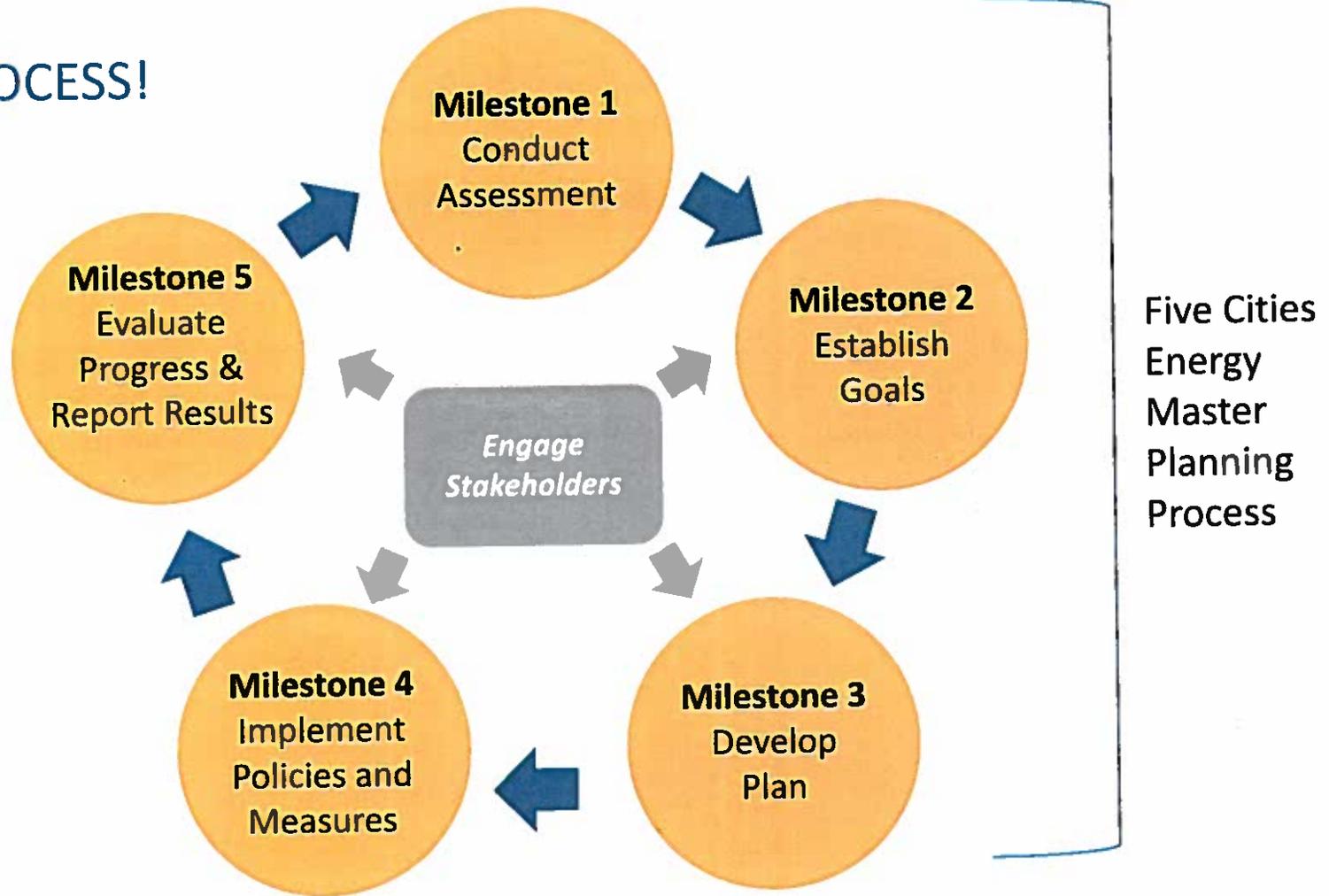
Accessible

Accountable

Adaptable

IT'S NOT JUST A PLAN...

IT'S A PROCESS!



KEY PLAN COMPONENTS

Energy Master Plan

Clear goals
and targets

Detailed
initiatives to
achieve goals

Strategies for
on-going
implementation
and planning

ROLES & RESPONSIBILITIES

Cities' role

- Designate staff to participate in the planning process
- Set goals and targets; evaluate solutions
- Take ownership of the plans and the implementation
- Track and report on progress
- Update plans, as needed
- Build relationships with the other cities

NYPA's on-going role

- Facilitate information sharing and collaboration across the cities
- Pursue strategic initiatives that cut across all five cities
- Finance energy efficiency upgrades and clean energy solutions, where applicable

OTHER STATE ENERGY PRIORITIES

- NY Energy Highway
- NY Green Bank
- The NY-Sun Initiative



GETTING STARTED

- Setting the context
- Basic information
- Glossary of terms
- Plan outline
- Timeline overview
- Stakeholder engagement
- Data analysis
- Technical Working Group

Katherine Rougeux

Office of Strategic Planning
New York Power Authority

SETTING THE CONTEXT: HISTORIES OF INNOVATION

Did you know that...

- **Buffalo** deployed the first electric street lights in the United States, leading to its nickname “City of Light”
- **Albany** opened one of the first commercial airports in the world, and the first municipal airport in the United States
- **Rochester** was America’s first Boomtown, with its population doubling in under 10 years
- **Syracuse** was one of the first in the United States to adopt electricity as a transportation motive power
- **Yonkers** was the home of first the elevator factory in the world

SETTING THE CONTEXT: FIVE CITIES, ONE EFFORT

Together, the five cities

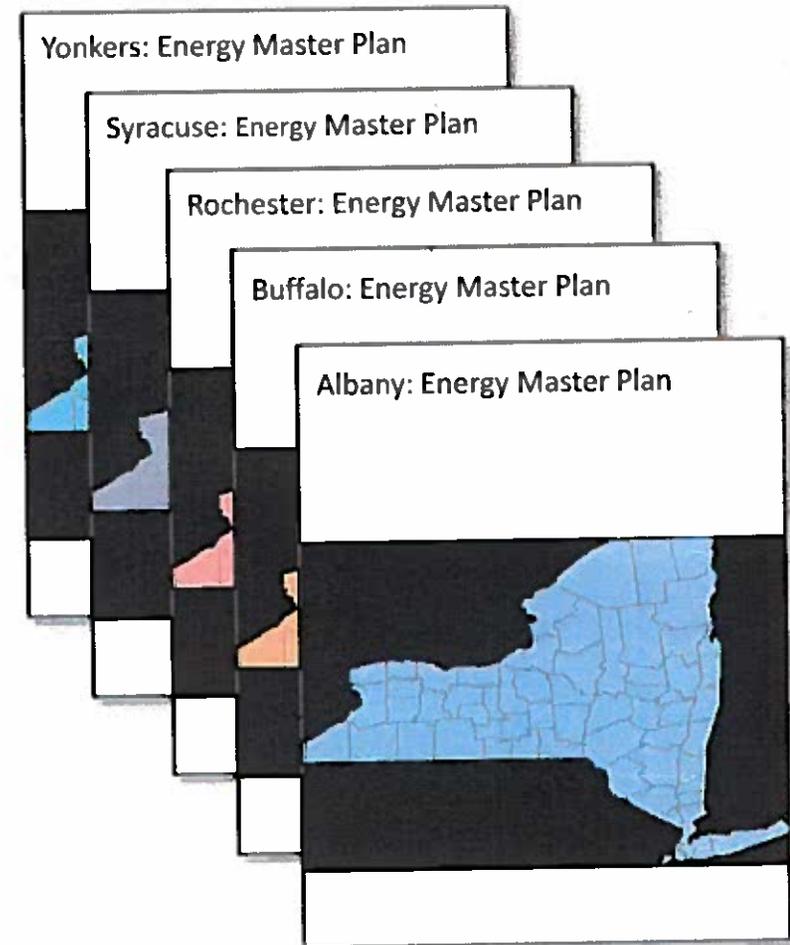
...have a population of **908,000**. If they were one city, it would be the **11th most populous city in the U.S.**

...have an area of **158 square miles**, the size of **Denver, Colorado**



BASIC INFORMATION

- **Audience:** General public
- **Plan voice:** From the cities
- **Implementers:** The cities
- **Design:** NYPA template for consistency and branding
 - Fonts and colors
 - Icons
 - Template for plan pages
 - Various template graphics



GLOSSARY OF TERMS

- **Goals:** high-level desired results, usually quantifiable
(e.g., 30% reduction in GHG emissions)
- **Objectives:** something that specific efforts/ actions are intended to accomplish
(e.g., improve energy efficiency of buildings)
- **Targets:** a quantifiable detailed performance requirement
(e.g., retrofit 10% of city-owned buildings by 2020)
- **Initiatives:** policy changes, establishment of offices, hiring of staff, development of new programs, release of campaigns, and other actions that support attainment of objectives
- **City:** the municipality, including executive levels, agencies, staff, and property
- **Stakeholders:** non-city individuals who have interest in the plan's success and outcomes, including experts, academic, institutions or other entities representing interests of the cities.
- **Action Areas:** Energy Planning & Coordination, Energy Distribution and Supply, Energy Efficiency in Buildings, Transportation
- **Consultants:** Energy Master Plan Development Consultants to the five cities

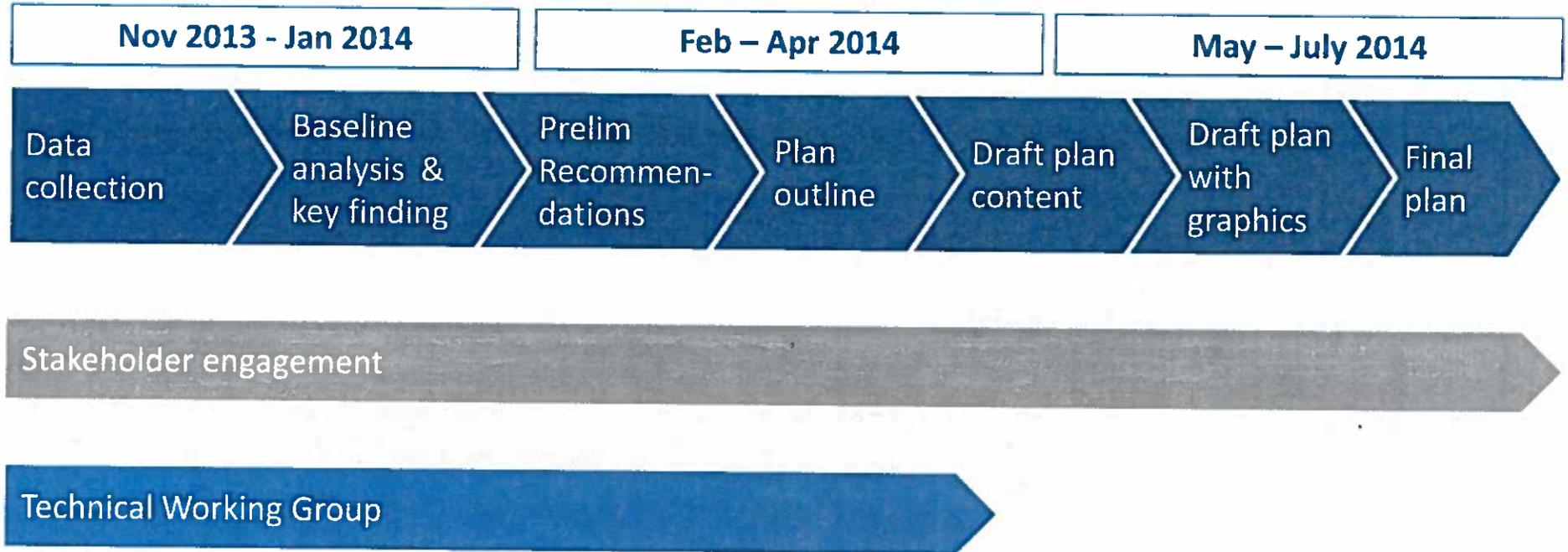
PLAN OUTLINE

- I. Letter from President of NYPA
- II. Overview: Five Cities Energy Master Plans (& Cities)
- III. Letter from the Mayor
- IV. Introduction to City Energy Master Plan
- V. Executive Summary
- VI. Energy Planning & Coordination
- VII. Energy Distribution and Supply
- VIII. Energy Efficiency in Buildings
- IX. Transportation
- X. Moving Forward
- XI. Five Cities Conclusion

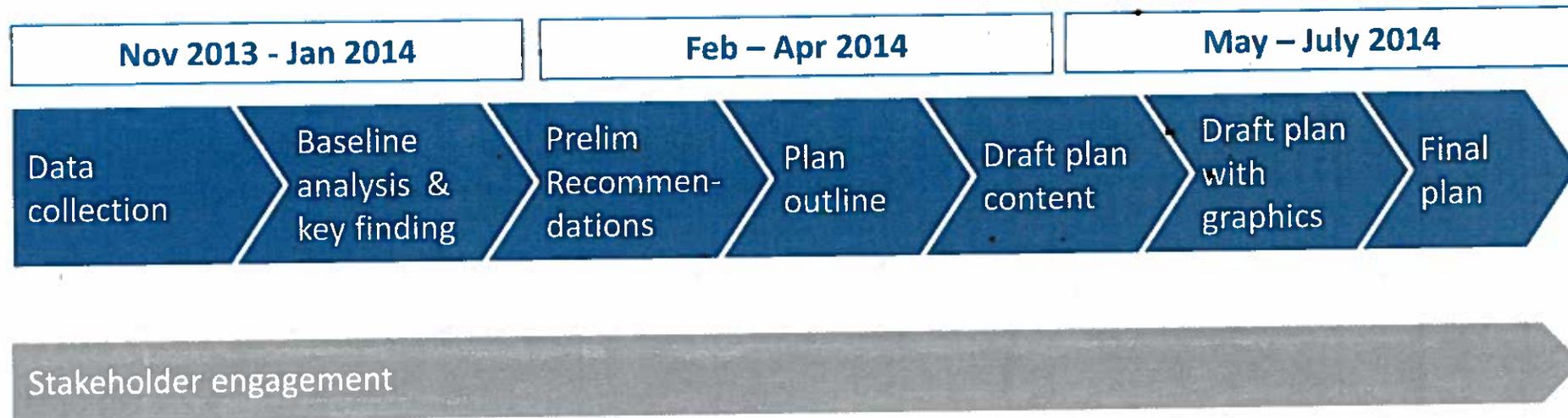
For each Action Area:

- Goal(s)
- Existing conditions, challenges, and programs
- Initiatives to achieve goals
- Implementation matrix

TIMELINE OVERVIEW



STAKEHOLDER ENGAGEMENT



Stakeholder Advisory Board:

- Provide advice and ideas on potential content for the plan
- Help develop the goals
- Act as a critical sounding board for initiatives being considered for the plan
- Provide support in analyzing various strategies for achieving the goals
- Help get the word out on the plan and its goals to the greater community
- Support its on-going implementation, tracking, reporting, and updating

STAKEHOLDER ADVISORY BOARD MEMBERS

Potential Members:

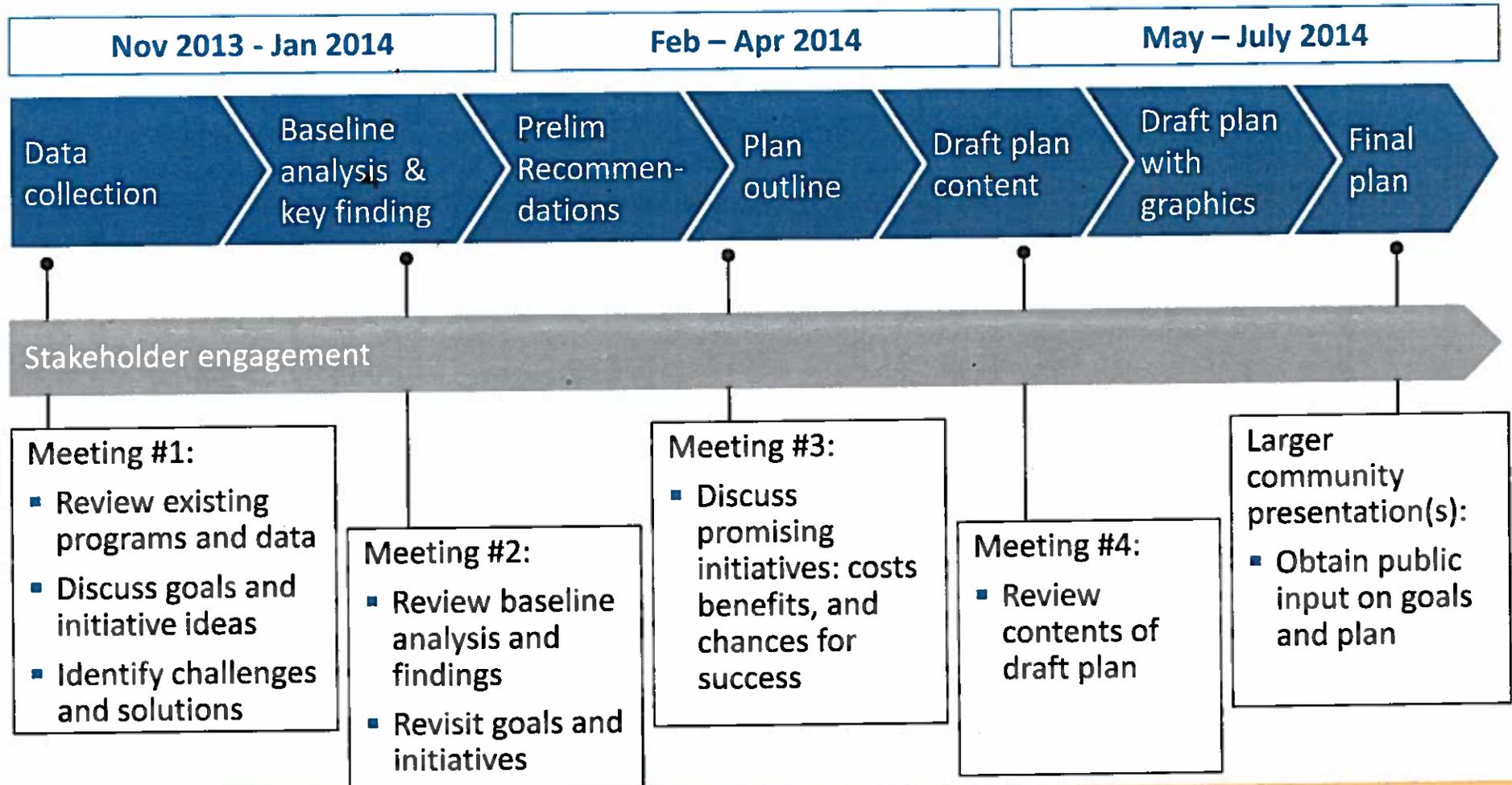
- Elected officials
- Local utilities
- Academic and research institutions
- Major employers/businesses
- Business groups
- Real estate groups
- Environmental organizations
- Community groups



How to find them:

- Evaluate existing stakeholder groups
 - Cleaner, Greener Communities
 - Regional Economic Development Councils
- Consider additional relevant stakeholders
- Ensure diversity in perspectives and expertise

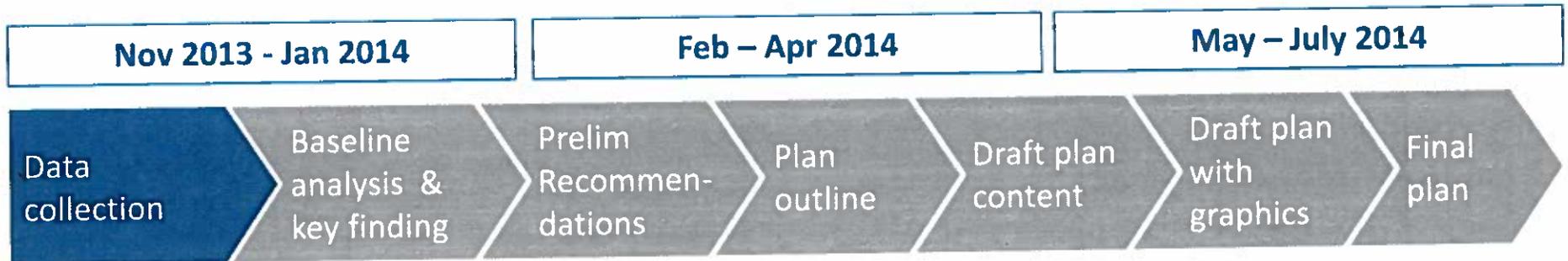
STAKEHOLDER ENGAGEMENT



Steven Baumgartner

Energy Engineer, Associate Principal
Happold Consulting

DATA COLLECTION



- **Draft Outline of Data Collection**
 - Data to collect “Day One”
 - Analysis of Data
- **Consistent:** general accounting protocols
- **Understand end-product:** from exemplar plans and plan aspirations

DATA COLLECTION BEST PRACTICES



Milestone 1
Conduct
Assessment

- Existing data collection
- Assessment of accuracy
- Further collection
- **Process explanation (logging and tracking)**

Milestone 2
Establish
Goals

Milestone 3
Develop
Plan

Milestone 4
Implement
Policies and
Measures

Milestone 5
Evaluate
Progress &
Report Results

DATA COLLECTION BEST PRACTICES: DATA LOG



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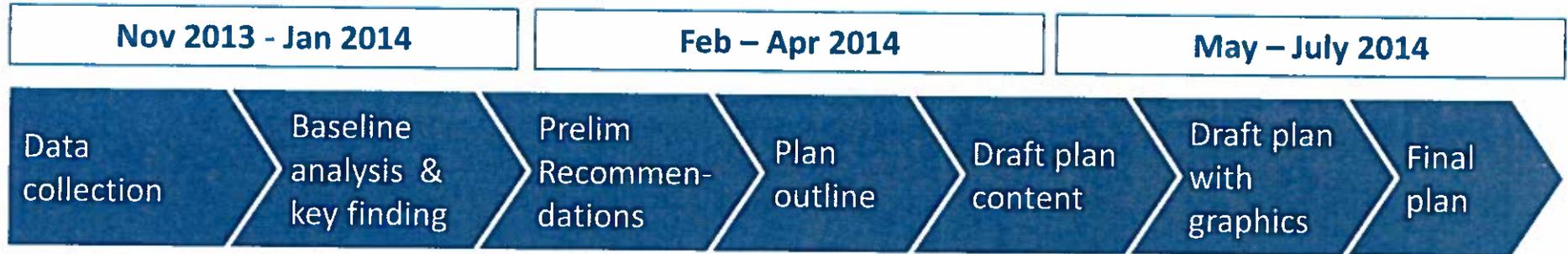
DATA COLLECTION TRACKING LOG CITY OF ALBANY

Date	Type of Entry	Description	Program Area	File Name/Location	Accuracy of Data	Col Col
12-Nov-13	Call placed	Talked to Don Smith at DOT, he said that he'd send over a pdf of relevant traffic counts for the city	Transportation	-	-	-
16-Nov-13	Data Collected	Revised pdf of Traffic counts/schedules from Don Smith.	Transportation	traffic.albany.dot/counts.pdf VHB server	95%	Jim



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TECHNICAL WORKING GROUP



Technical Working Group

Objective: ensure consistent standards and analysis across the five plans

TECHNICAL WORKING GROUP

Role of Working Group members:

- Participate in collaborative meetings to discuss approaches and share best practices
- Set standard methodologies, assumptions, and metrics for data collection, analysis, and policy development

Commitment:

- 3-4 calls covering all four program areas; plus
- One call focused on each program area,
- Email correspondence, and
- Regular communications on Share-point