

# Shallow Utilities Consortium Industry Information Session

April 26, 2023

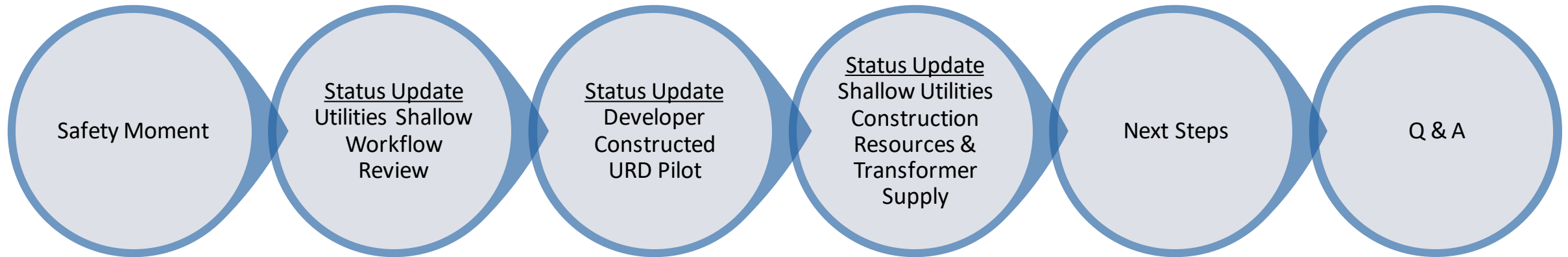
**Shaw)**

**ATCO**

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# Agenda & Purpose



**Purpose:** Share information with our customers on the status of current Initiatives within the Underground Residential Delivery Program

# Safety Moment

## Spring Hazards – High Winds on Construction Sites

### Potential hazards created by the wind

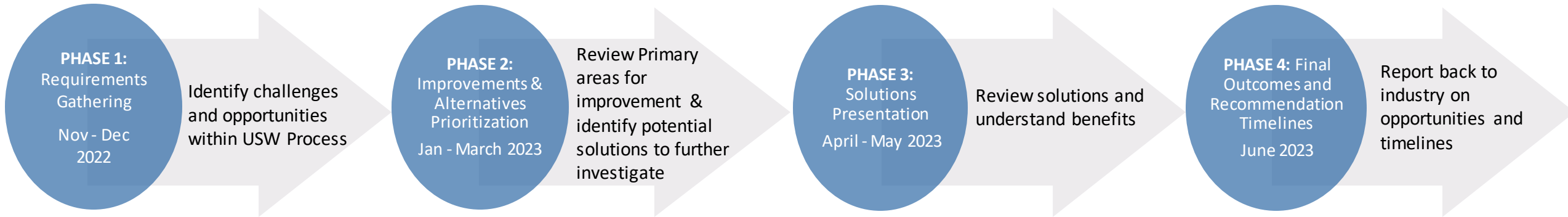
- Struck-by incidents due to objects being blown around
- Eye injuries due to small particles of flying debris and dust
- Dropped loads while completing lifts with debris and dusts
- Objects falling from elevated surfaces

### Best practices to eliminate hazards

- Identify high winds as a risk during daily tailgate meetings and job hazard assessments
- Reschedule work tasks that become dangerous in excessively windy conditions
- Ensure proper use of PPE, including eye protection at all times, while on site
- Do not conduct lifting operations during high wind events
- Ensure all construction materials are properly stored and secured



# Utilities Shallows Workflow (USW) Review



## **PHASE 1 OUTCOME:**

- Three major areas for focused improvement:
  1. USW and City approvals process disconnected in terms of timelines
  2. USW steps and content optimization to decrease the time for “initiate to energization”
  3. URD Construction duration from the end of design to developer site ready needs to be clarified and better resourced.

## **PHASE 2 OUTCOME:**

- Potential solutions identified within the three major areas of opportunity:
  1. **URD Construction Demand** Incumbent Crews, RFP implementation, and URD DC Pilot
  2. **USW and City / BILD** process alignment
  3. USW Step activity optimizations and Step 0 potential
- **Sub-working groups created, and actions assigned – meetings are underway**

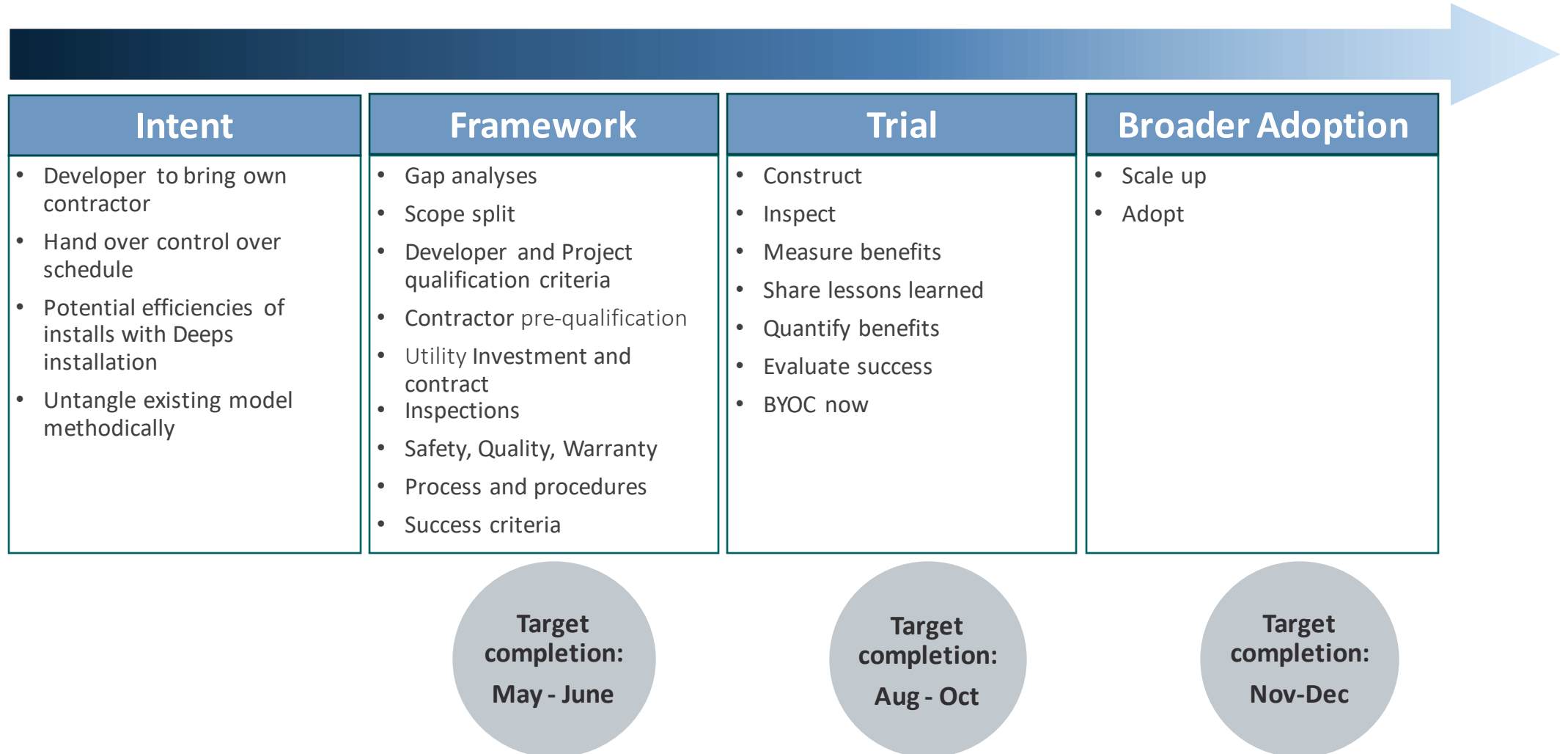


**\*\*WE ARE HERE\*\***

## **MULTI-FUNCTIONAL COMMITTEE MEMBERS**

- Developers
- Developer Consultants
- City Departments
- Utilities
- BILD CR

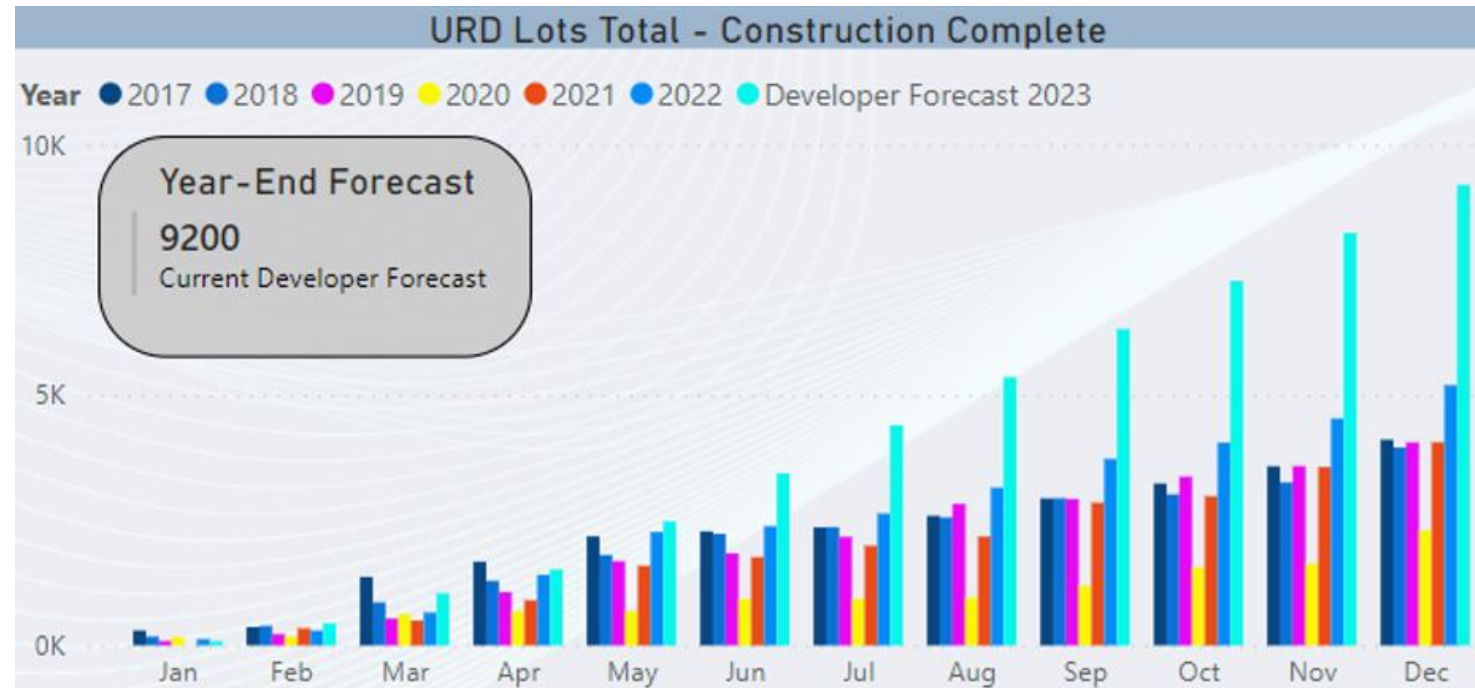
# Developer-Constructed URD Pilot



# Shallow Utilities Construction Resources

**CHALLENGE:** Forecasted lots in the construction queue in 2023 is higher than the volume construction contractors will be able to deliver.

- Discussions with developers & builders in Q1 2023, forecast 9,200 lots to be constructed this year
  - 77% more lots than previous year
  - Weather-dependent
  - Market-dependent
- To date, 7 contractors provide 13 permanent crews, and 1 temporary crew- 14 total
- Shallow Utilities Consortium working to **close the gap**
  - Bringing on additional resources Shallow Utilities Construction resources = yield 3-4 crews
  - Developer-constructed URD pilot = yield 2-3 crews



**\*\*REQUEST TO DEVELOPERS – ONGOING UPDATES FOR CURRENT INFORMATION ON PLANNED LOT DEVELOPMENT, IS ESSENTIAL TO THE SUCCESS FOR SEVERAL INITIATIVES**

# Shallow Utilities Construction Resource Challenge

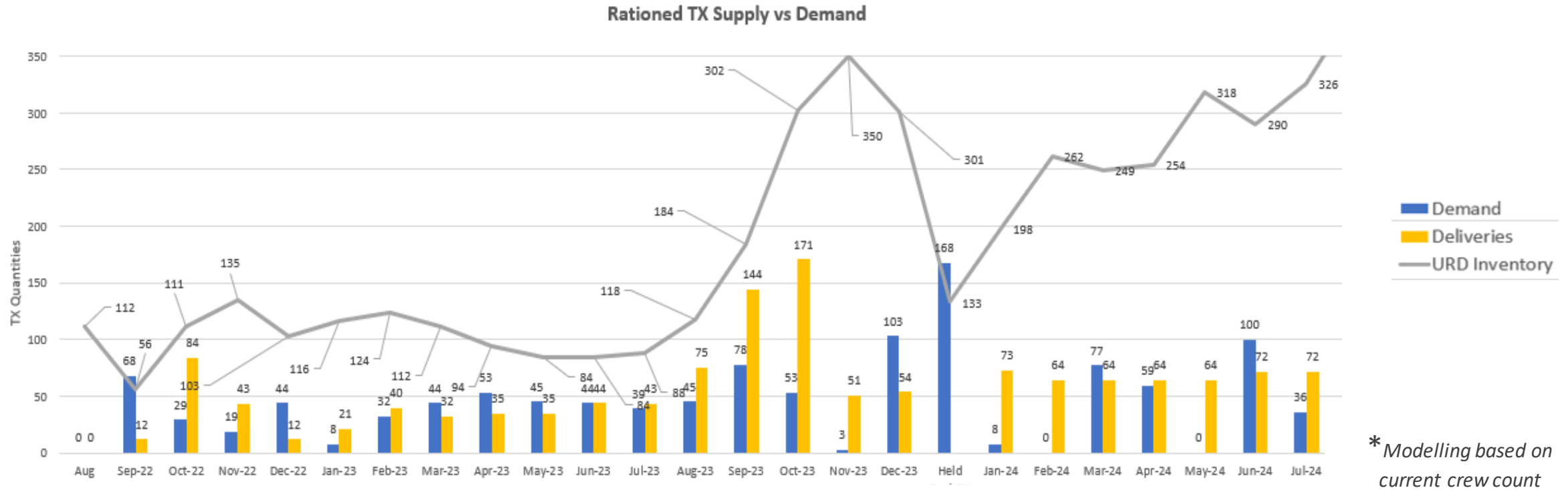
## Work Completed

- Modelling for capability and lot development
- Proactive identification of challenges to collectively discuss solutions with industry
- Ongoing conversations with industry
- Exploring incentives with current contractors to increase capacity
- Open RFP available to onboard additional crews issued, evaluated and awarded
- *NOTE: These resources require special skills beyond civil scope*

## Work Underway

- Finalizing the onboarding of successful applicants to RFP (5 successful, 1 withdrew – anticipate 4 new organizations to provide 1 crew each for a total of 18)
- Industry provided suggestions on contractors that might be interested; ENMAX Power is making the RFP information available to contractors upon request
- Discussions with industry deep utilities contractors on possibility of becoming part of shallow utilities contractors. Meetings with DEEPS Contractors taking place

# Transformer Supply Chain



## Transformer Allocation Strategy - successful in avoiding a stock-out scenario

- Since October 2022, out of 42 locations w/o transformers, only 4 requests received to install remaining transformer. All requests fulfilled.
- ENMAX Power onboarded 4 new transformer suppliers in 2022 – cautiously optimistic they will fulfill orders moving forward
- **Target:** Q4 Removal of Allocation Strategy – many interdependent factors will impact modelling (additional crews, Developer-constructed pilot & implementation)
- Preparing revised modelling based on crew additions through recent RFP



# Next Steps

- Shallow Utilities Consortium will send first monthly email in **May** to update on:
  - Shallow Utilities Workflow Review Progress
  - Developer-Constructed Pilot
  - Construction Resources
- Shallow Utilities Consortium to arrange Quarterly Meetings – first to occur in **July**

# Question & Answer Session

- What is the escalation path for URD challenges?
- What are plans to communicate on progress with industry?
- Are there construction contractor qualification differences between Fortis Alberta and ENMAX?
- Will the Shallow Utilities Consortium publish metrics to facilitate accountability?
- Does the Shallow Utilities Consortium intend to reach out to contractors who didn't respond to the RFP to understand why?
- Will ENMAX Power compensate developers if they choose to use Temporary Power for Construction?

THANK YOU FOR ATTENDING

Shaw)

**ATCO**

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