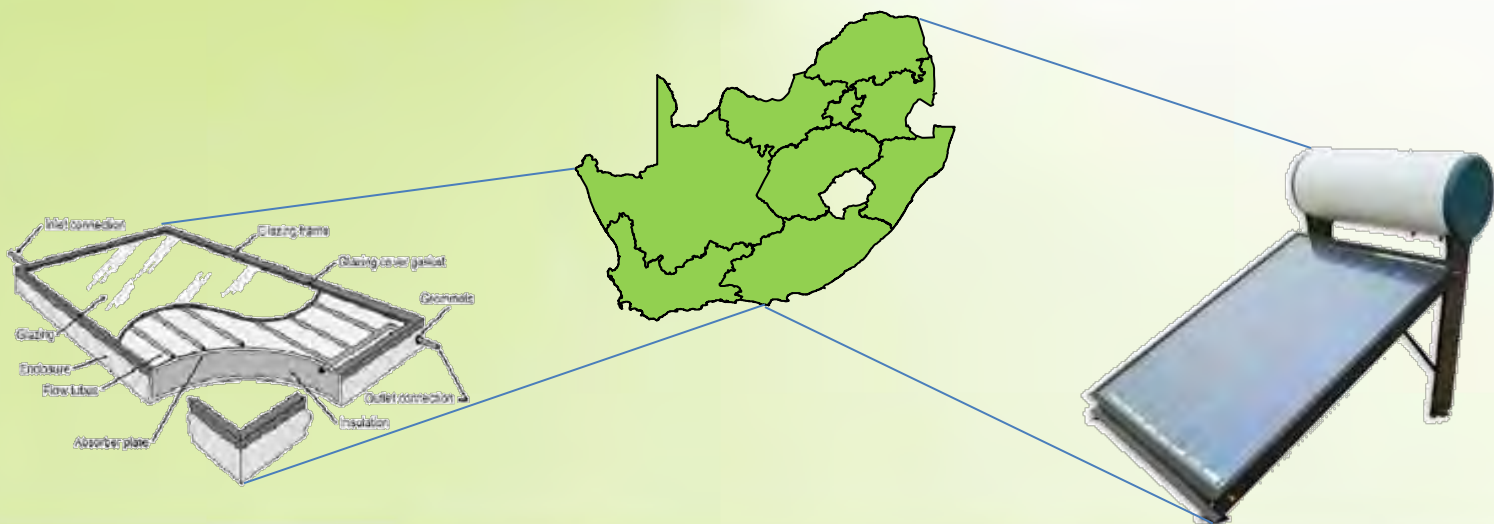




**APPOINTMENT OF A PANEL OF SERVICE PROVIDERS TO
UNDERTAKE TECHNICAL FEASIBILITY ASSESSMENTS FOR THE
PERIOD 2015/16, 2016/17 AND 2017/18 FINANCIAL YEARS
BID NO: DOE 004/2015/16**



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**Purpose: Tender Briefing Session – Technical Feasibility Assessments
Date: 13 October 2015
Time: 14h00 – 16h00**

Outline

- **Brief Historic Background**
- **Strategic Context (where do we want to go?)**
- **Governance Steering Committee (Government Stakeholders)**
- **Conceptual Framework & Process Flow (Social Programme)**
- **Objectives of Technical Feasibility Assessments**
- **Scope of Work & Minimum Deliverables**
- **Questions & Answers**



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Brief Historic Background

NSWH programme launched in 2010

- In 2008 Eskom was mandated to install 1 000 000 (1 million) systems under conditional grant, with the objectives to:
 - a) reduce electricity demand and Greenhouse Gas (GHG) emissions;
 - b) protect poor from electricity tariff increases;
 - c) facilitate local manufacturing industry and create employment.
- ***Outcomes achieved:***
 - i. Over 400 000 systems installed in residential dwellings as at end of programme;
 - ii. electricity reduction not achieved as focus has been in low electricity consumption areas;
 - iii. imported products have dominated installations;
 - iv. poor quality installations due to lack of training;
 - v. unreliable verification of number and location of installed systems due to lack of monitoring; and
 - vi. lack of maintenance of systems resulting in users reverting back to electric systems.



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Strategic Context (where do we want to go?)

- **Socio-economic focus**

- Fully subsidised new installations (low income)
- **Non-functional / old tube system replace with “new” ?**

- **Energy (load reduction) focus**

Aimed at existing and insured market segments via South African Insurance Industry and Banks:

- **Re-active:** “faulty/failed” geyser to be replaced with Solar Geyser under insurance claim
- **Pro-active:** existing functional electrical geysers to be replaced with Solar Geyser (SAIA + Banks)

- **Contributing further to National Development objectives:**

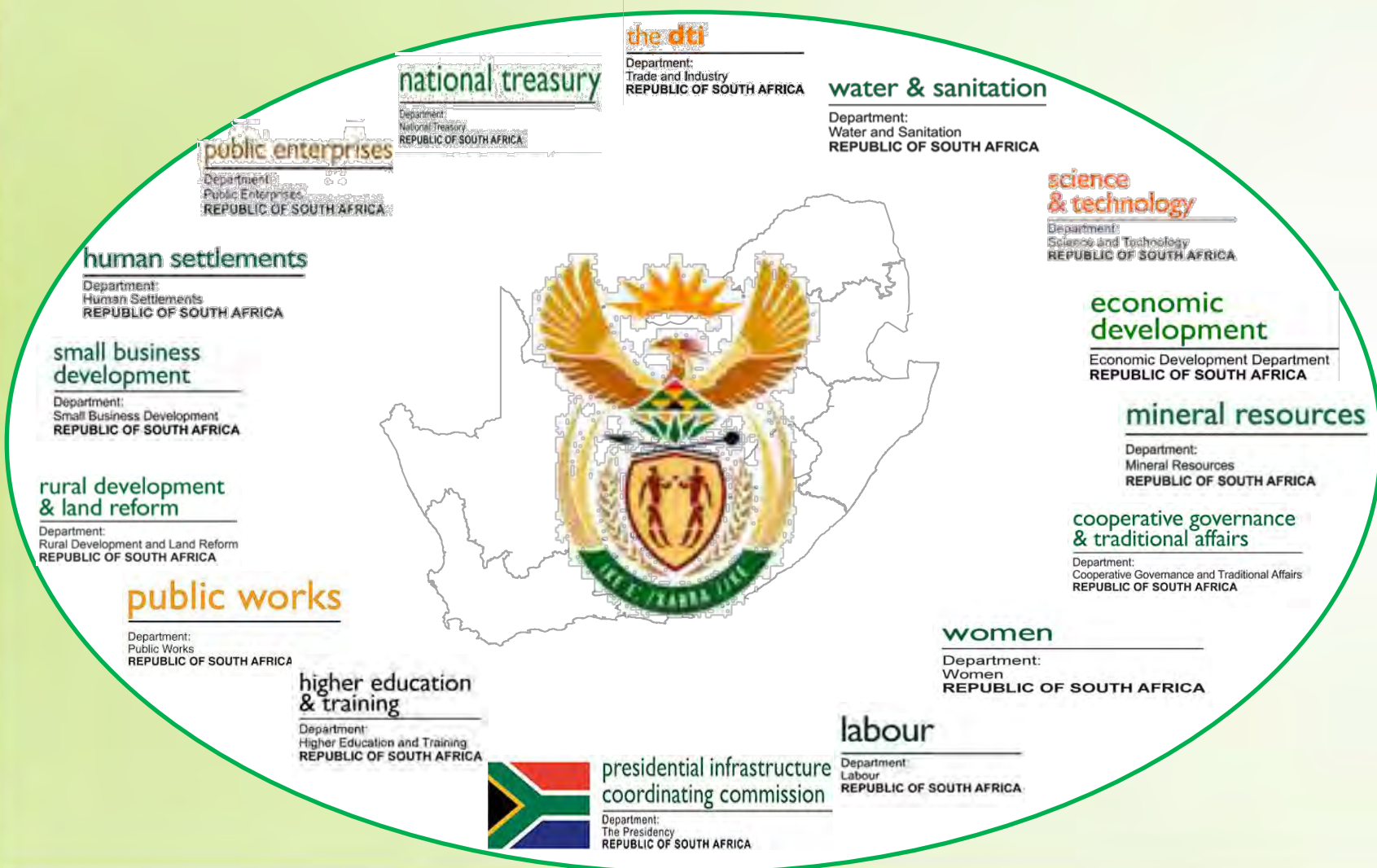
- Industrialisation / industry development (through Local Content requirements)
- Job creation (through focused installation & maintenance training)
- Sustainability (through life cycle management = operations & maintenance jobs)



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Governance Steering Committee (Government Stakeholders)



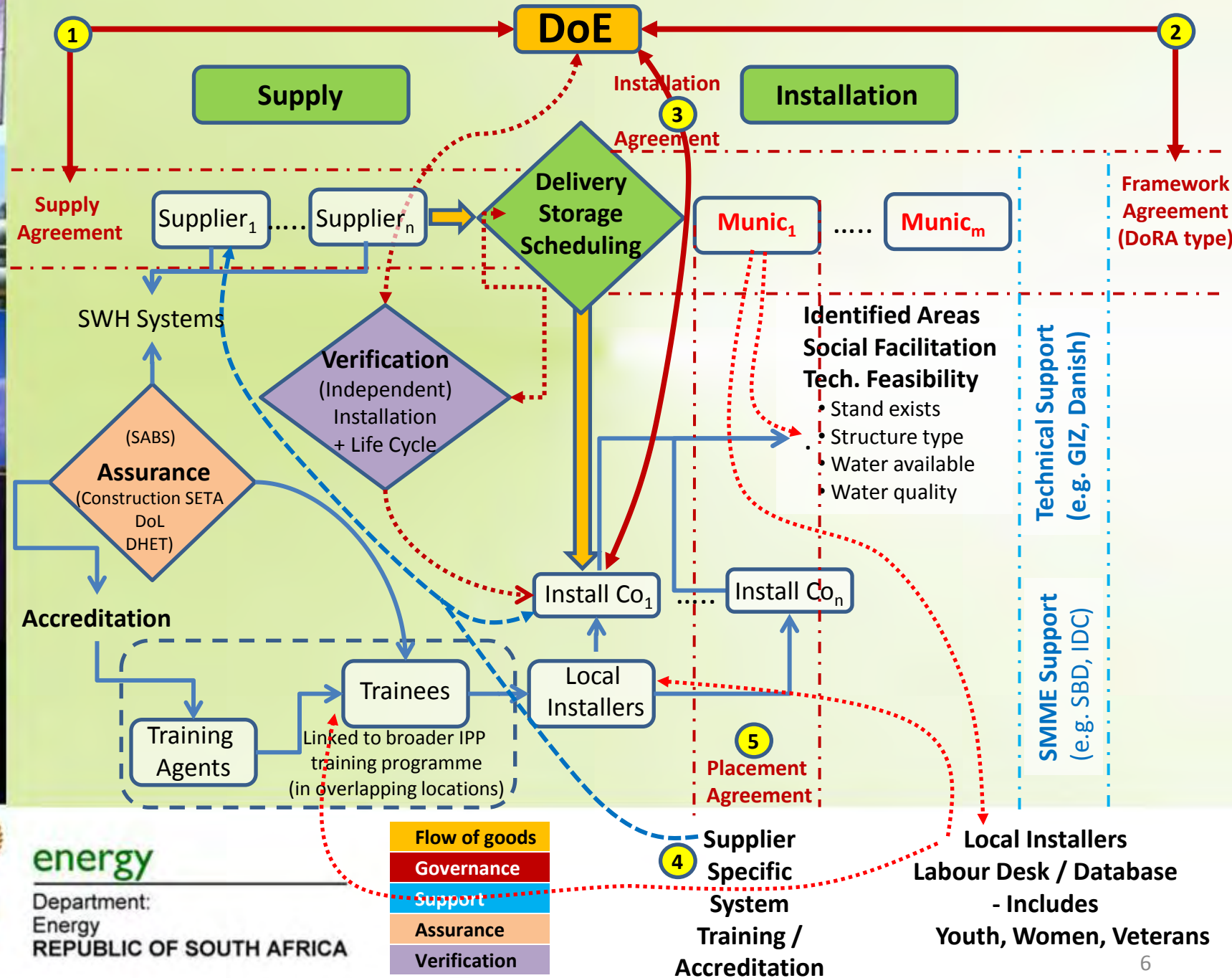
+ Provinces, local authorities and communities in which installations are located



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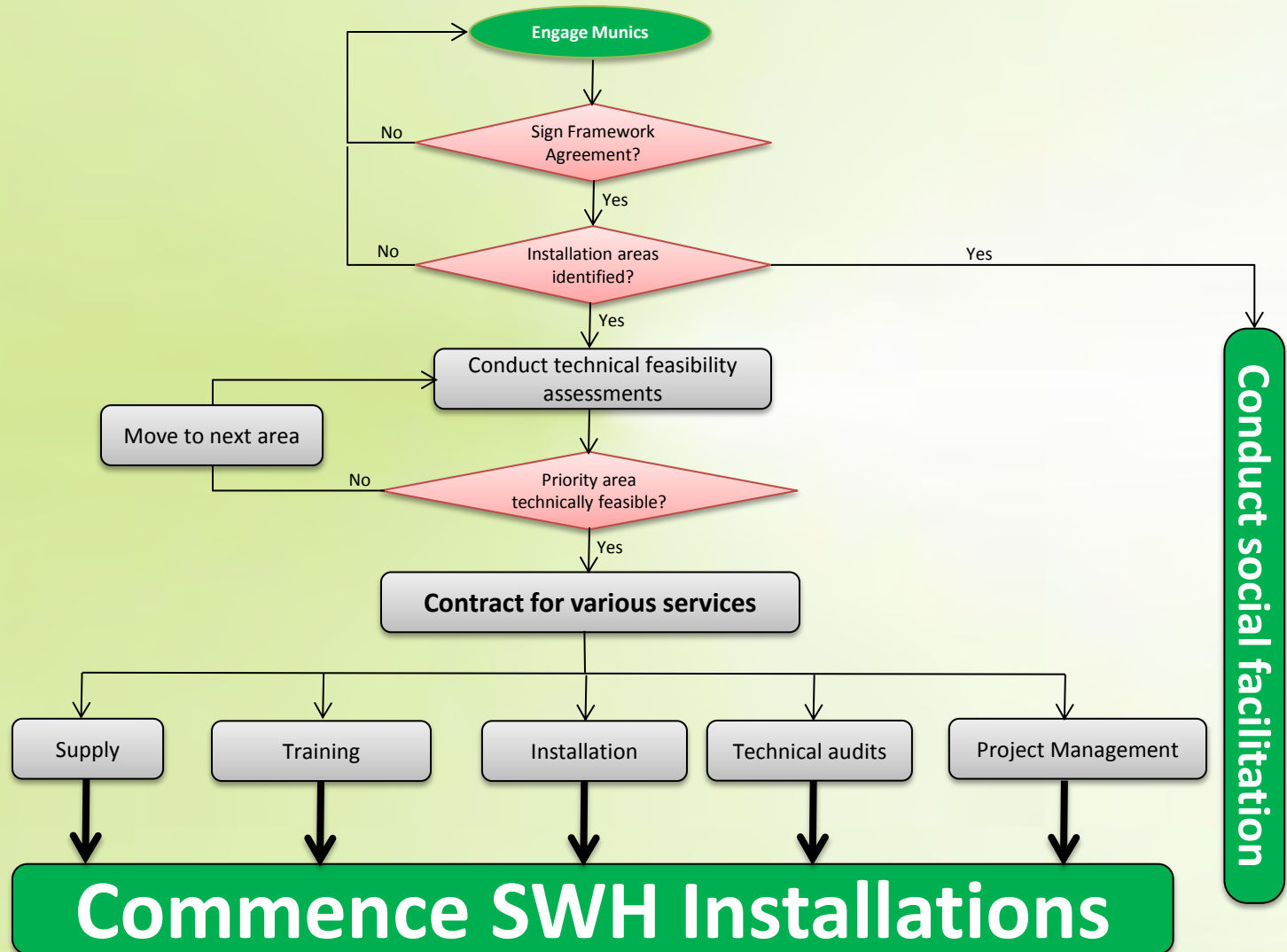
Conceptual Framework & Process Flow (Social Programme)



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Flow of goods
Governance
Support
Assurance
Verification

Conceptual Framework & Process Flow (Social Programme) ...



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Objectives of Technical Feasibility Assessments

Main Objectives:

- *“Undertake third-party (independent) verification of RFI data provided by the municipality; and*
- *Make a determination as to whether a municipality’s Identified Residential Area is technically sound to enable installation of SWH systems.”*



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Scope of Work & Minimum Deliverables

Scope

- Portable water quality analysis
- Water pressure monitoring
- Determination of :
 - SWH system suitability (wrt. freeze protection)
 - an optimal logistics and installation process
 - appropriate collector location
- Assessment of:
 - roof integrity, orientation and pitch
 - state of access roads
- Recommendations for non-technically feasible houses
- Confirmation of:
 - water reticulation
 - house occupancy
- Etc.

Minimum Deliverables

- Inception report
- Water analysis results
- Overall Technical Feasibility Assessment Report



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THANK YOU



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