



**GGFR**

Global Gas Flaring Reduction  
A Public Private Partnership



## GLOBAL METHANE INITIATIVE MIDDLE EAST MEETING

# Scaling Up Global Gas Flaring Reduction

Fabrice Mosneron Dupin  
GGFR Advisor, The World Bank  
October 2<sup>nd</sup>, 2012

- **Created** in 2002 at the World Summit on Sustainable Development in Johannesburg
  - 10 years anniversary in 2012 (**Global Forum in London on Oct 24-25th**)
- **Main Objectives:**
  - Reduce carbon emissions and environmental impact of flaring
  - Improve energy efficiency and access to energy
- **Means:**
  - World Bank led Public – Private Partnership to facilitate gas flaring reduction
  - Phase 4 just approved by partners (2013-2015)

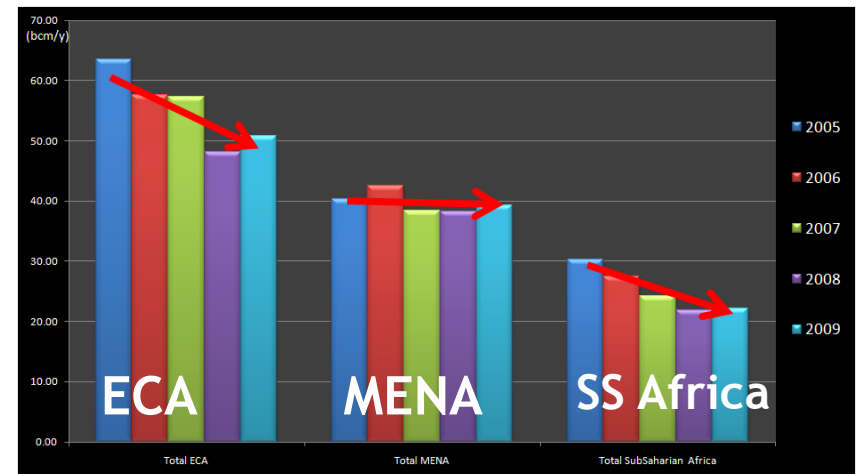
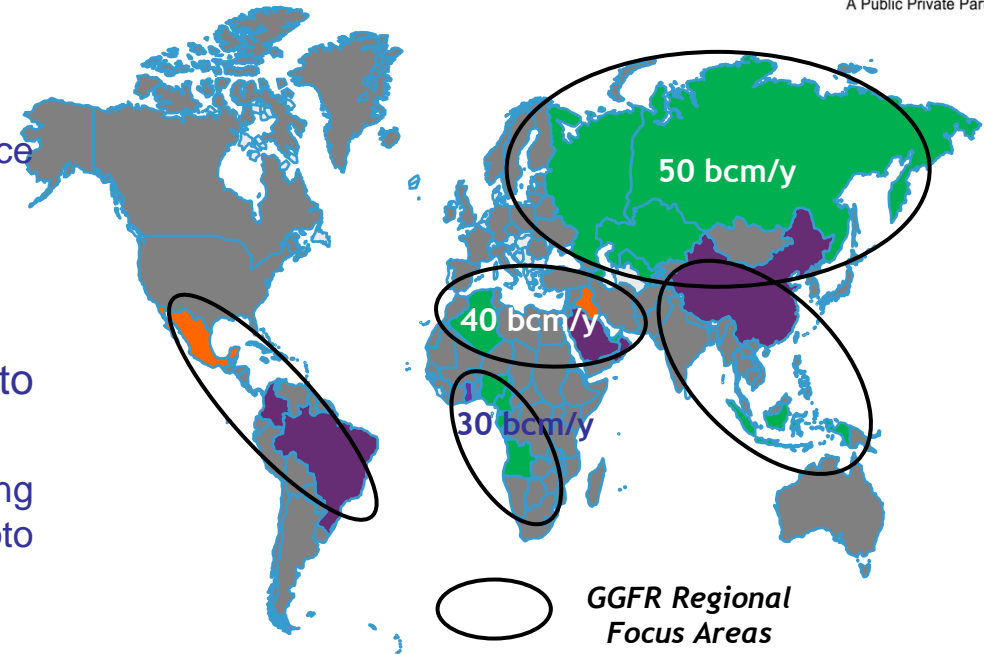
## Mission Statement

GGFR is a **catalyst** for reducing **wasteful and undesirable practices** of gas flaring and venting through **policy change, stakeholder facilitation and project implementation**

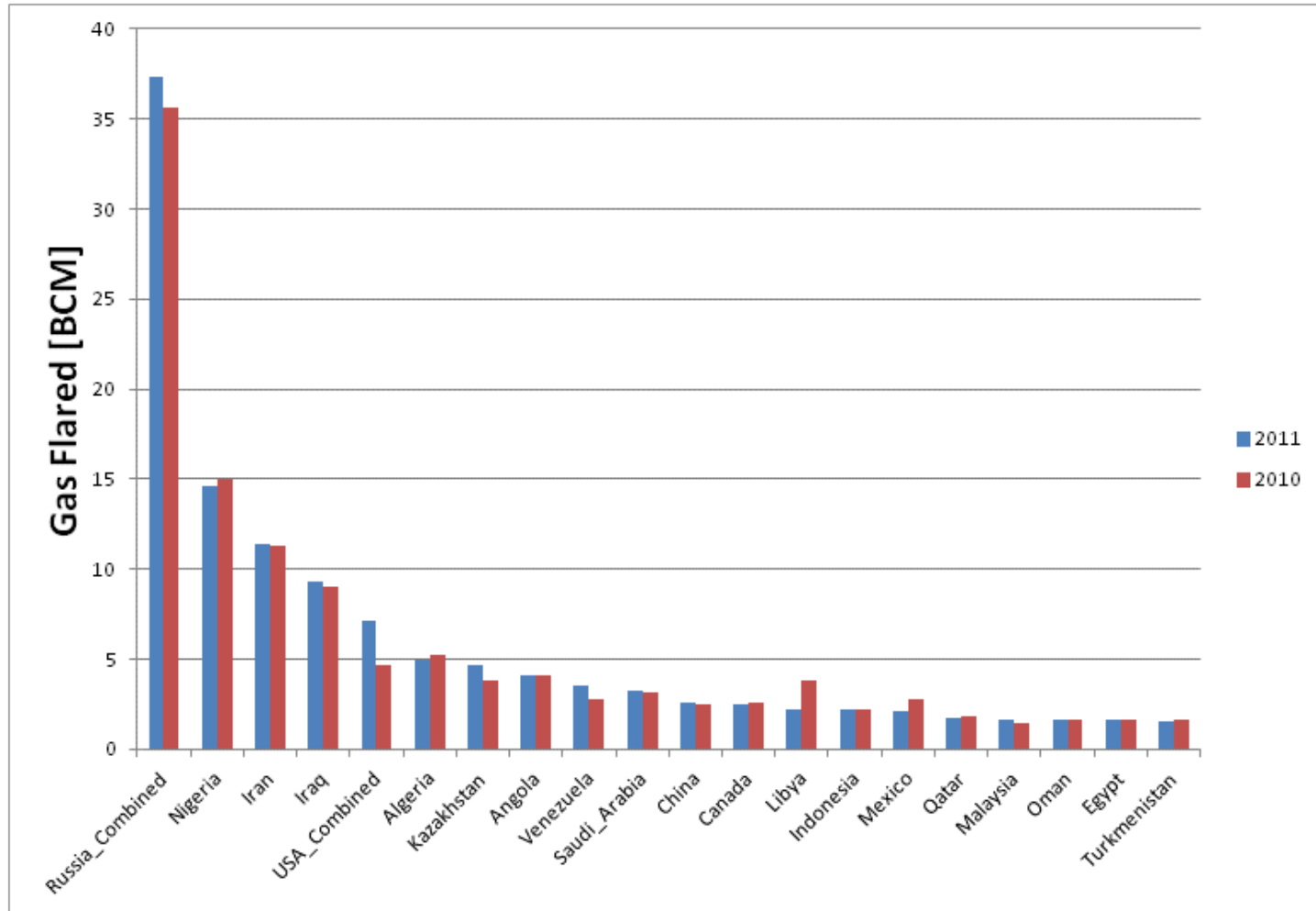


# Global Flaring

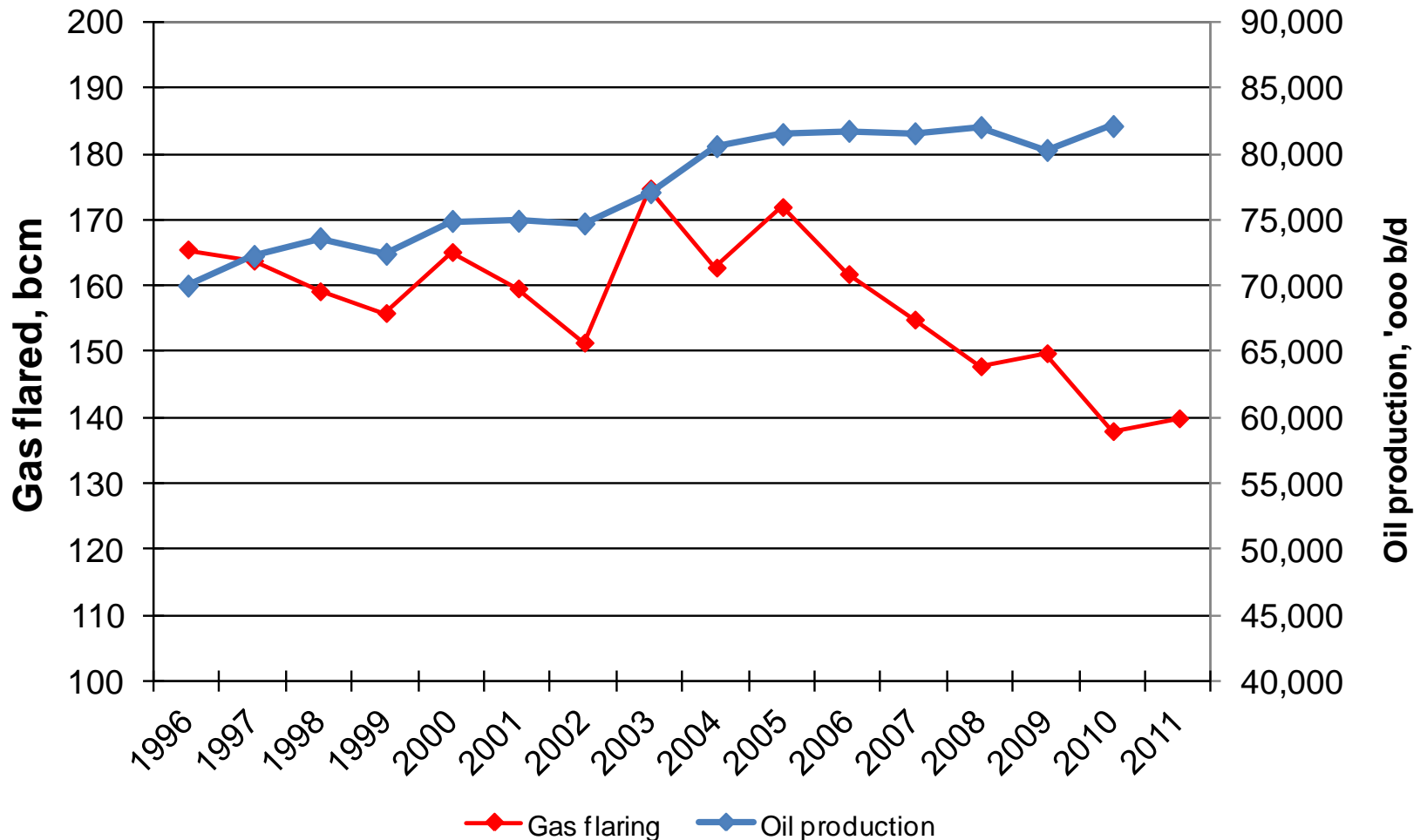
- **140 bcm of gas** flared globally
  - Annual gas use of Italy and France combined
  - 5% of world gas production
- **360 million tons of carbon dioxide** into the atmosphere
  - 2/3 of CERs issued by the existing registered projects under the Kyoto mechanisms
  - Emissions of 77 million cars
- **Risk of upcoming increase in gas flaring**
  - Oil production increases (Iraq)
  - New producing countries
  - Oil Shale and gas shale production



# 20 top flaring countries

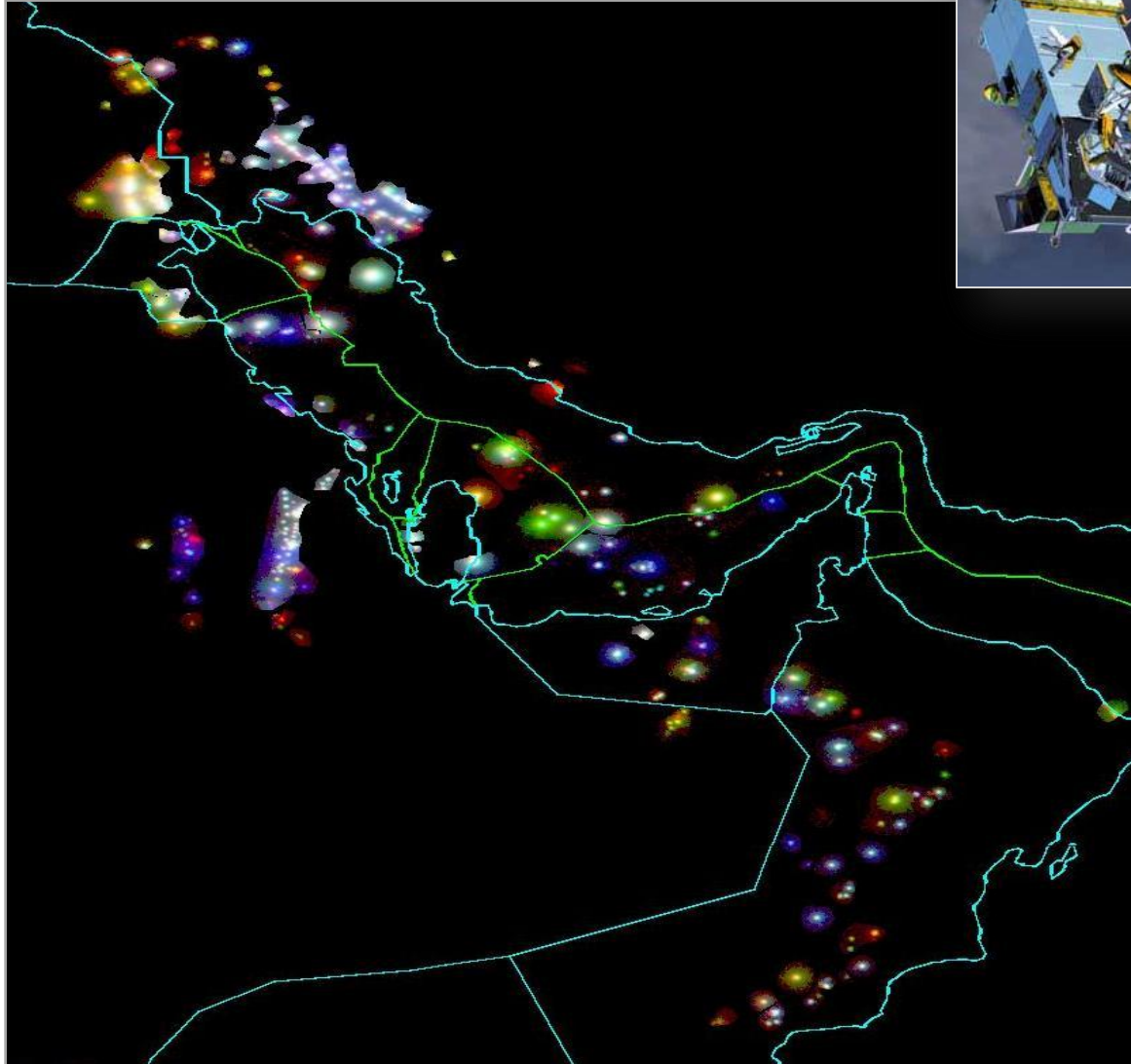


# Global flaring - satellites figures



Source : NOAA, BP Statistics

- **Phase 1 to 3:**
  - Raise Global Awareness
  - Develop monitoring and measurement tools
  - Develop Regulations
  - Develop Gas Flaring Reduction Plans (AGRP/CIP)
  - Identify and Develop Gas Utilization Projects
  - Improve understanding of CDM, Carbon Finance Mechanisms and financing tools
- **Phase 4 (2013-15):**
  - Scaling up above activities
  - Increased focus on the gas value chain (including infrastructures and markets)

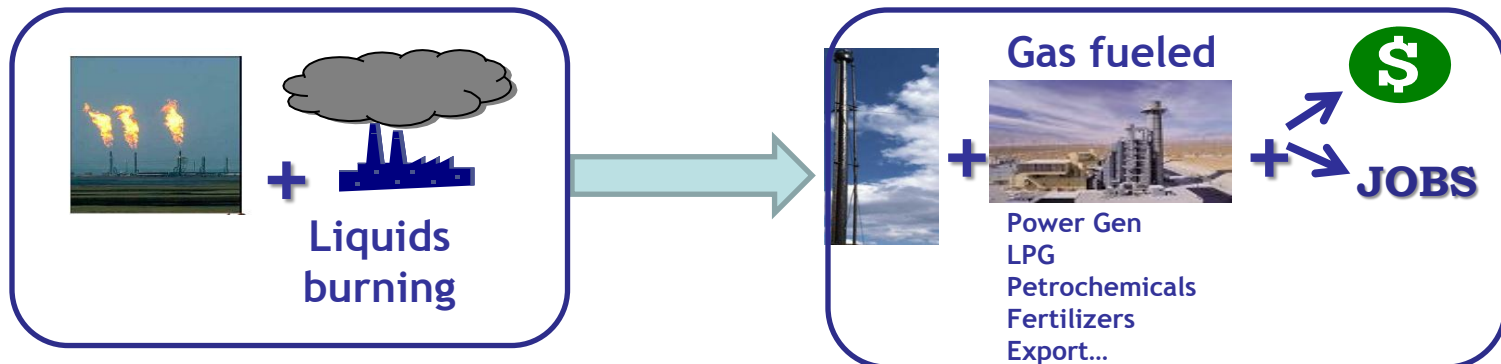
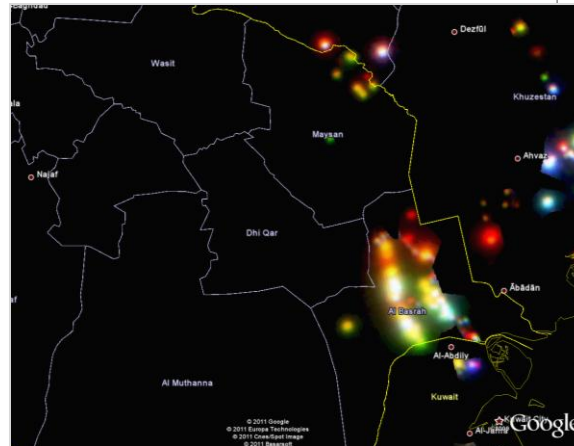
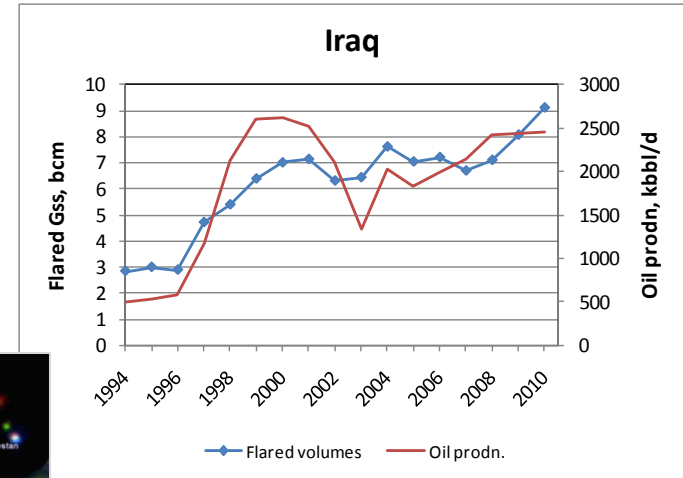


## GGFR Middle East Partners:

- Iraq
- Qatar
- Kuwait

# Associated Gas: The fuel for Iraq development

- Iraq burns more than half its gas production (9bcm/y)
- Rapid increase with the oil production ramp up
- This gas could
  - fuel all the missing power generation in the country
  - feed job creating industries
  - provide LPG
  - generate export revenues





# How to make it happen?

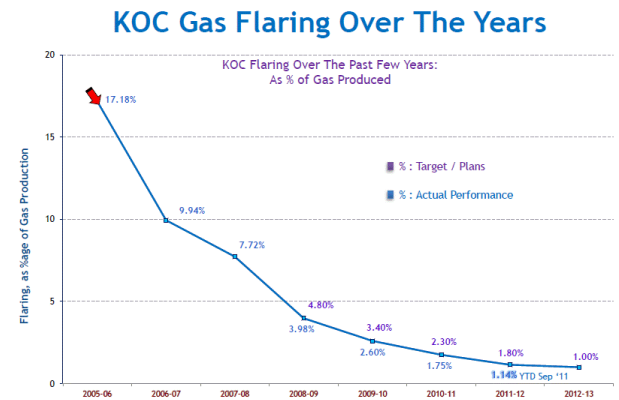
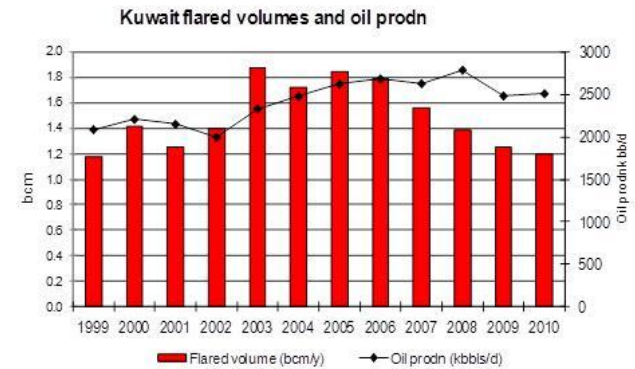
- **Attract investors**
  - Large investments needed to separate, treat, compress the gas
  - Ex BGC
- **Develop mid stream (infrastructure) and downstream (markets)**
  - Gas lines network
  - Power generation, LPG market, Industry, Export

- **Set up/reinforce gas institutions, and regulations**

- National Gas Company(ies)
- Setting up strategy, priorities, objectives, planning
- Regulation (Gas Pricing, Transportation, Standards, Safety,...)
- Contracts management, relationship with investors

World  
Bank and  
GGFR  
proposed  
support  
areas

- **Kuwait joined GGFR in summer 2011**
  - Signature ceremony in March 2012, with press coverage
  
- **Technical mission in March 2012 to**
  - Review KOC facilities
  - Identify opportunities to reduce flaring below 1% of inlet gas
  - Define the “Technical Limit” to Gas flaring reduction
  
- **Remaining Work Program**
  - Build up on the results of the technical mission
  - Regulation
  - KGOZ in Divided Zone

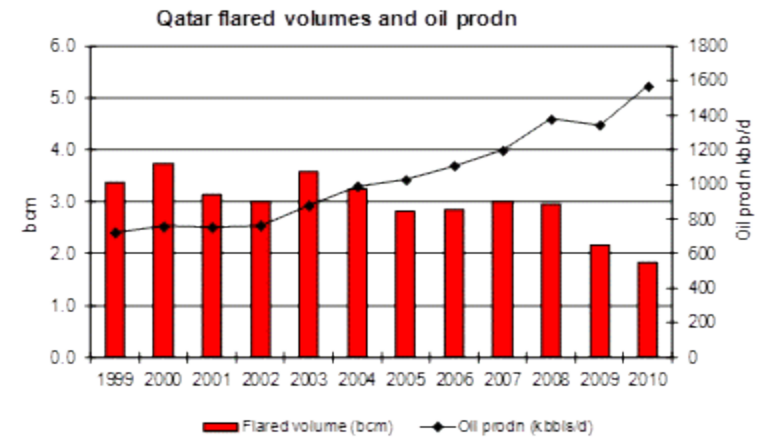


- **Qatar's commitment to flare reduction**

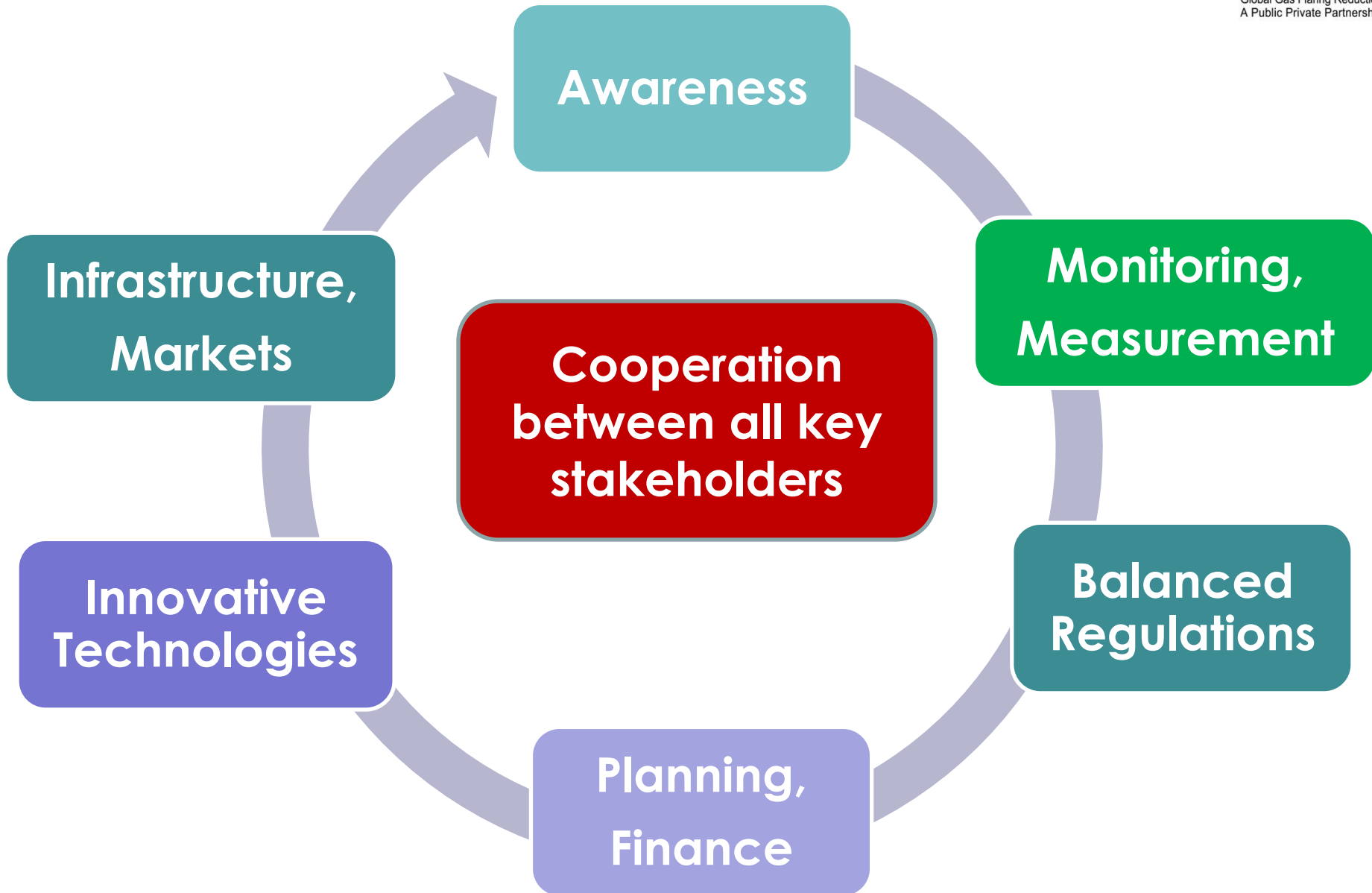
- National Strategy for 2016 sets out clear objectives to halve flaring intensity compared to 2008 and develop monitoring tool
- Several major Gas flaring reduction projects: Al Shaheen, Jetty Boil off gas, Qatargas, Rasgas...

- **Work Program**

- Review Operators Flare Reduction Plans
- Identify and prepare Flare Reduction Pilot
- Complete gas flaring regulation
- Develop Flaring Database



# Gas Flaring Reduction - Key success factors



# GGFR's Vision is...

---



## **THANK YOU**