

INTERNATIONAL INSTITUTE OF REFRIGERATION

**Servicing Industry in Africa and in other
developing countries**

SIDE EVENT

TUESDAY, NOVEMBER 5, 2019

CHALLENGES AND ACTIONS IN AFRICA AND SOUTH ASIA

Didier COULOMB, General Director
INTERNATIONAL INSTITUTE OF REFRIGERATION (IIR)

www.iifiir.org

The IIR

- ✓ Intergovernmental Organisation
- ✓ Dissemination of knowledge on all refrigeration technologies and uses : food, health, air conditioning, heat pumps, cryogenics...
- ✓ **59** member countries, including 17 African countries
- ✓ Network of **400** experts
- ✓ **500** corporate and individual members
- ✓ Partnerships with United Nations bodies

Key Figures

Roughly **5 billion** refrigeration, air-conditioning and heat pump systems in operation across the globe

More than **15 million** people employed in the refrigeration sector worldwide

Global annual sales amount to approximately **500 billion USD**

Refrigeration consumes about **20%** of the overall electricity used worldwide

7.8% of global greenhouse gases (GHG) emissions are attributed to the refrigeration sector, where **63%** are indirect emissions and **37%** are direct emissions

Source: 38th IIR Informatory Note: The Role of Refrigeration in the Global Economy (June 2019)

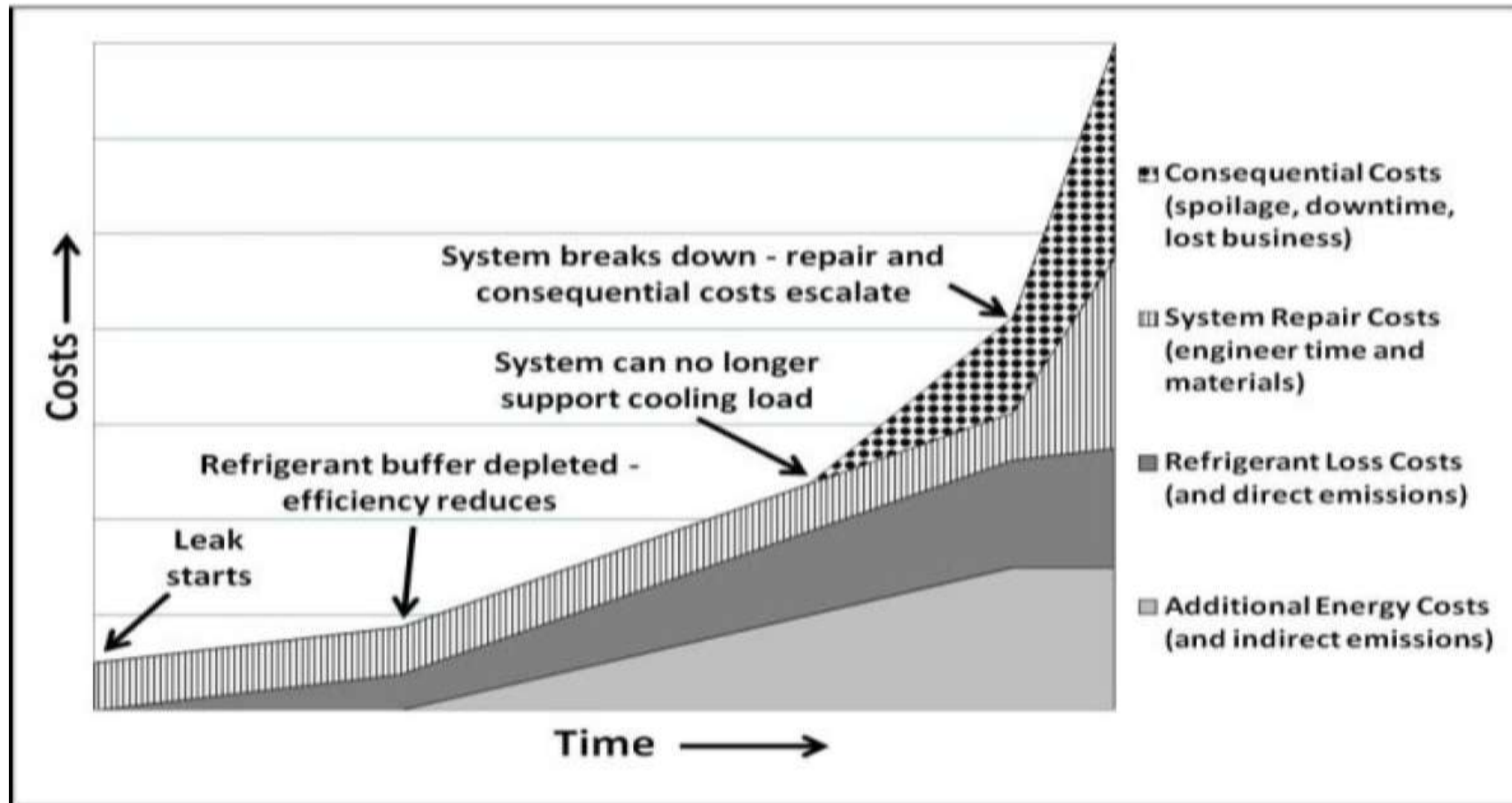
35th IIR Informatory Note: The impact of the refrigeration sector on climate change, November 2017

Challenges

- ✓ increasing population:
Doubling in Sub-Saharan Africa
2019 → 7,7 billion
2050 → 9,7 billion
2100 → 10,9 billion
- ✓ urban population :
90% of the increase is in Asia and Africa
2018 → 55 %
2050 → 68 %
- ✓ 820 millions people undernourished, 2 billion food looses « food insecurity, high or moderate »
- ✓ air conditioning use is skyrocketing
climate change and hot waves will increase its use
IEA : global energy needs for space cooling will triple by 2050
- ✓ health issues (vaccines...)

Refrigerants issues and energy issues are linked

For instance, impact of refrigerant losses



We need to simultaneously face both issues

IIR Actions in Africa and South Asia

- ✓ joint FAO - IIR seminar in Cameroon on the use of the cold chain in Sub-Saharan Africa (2012) + report and Agroindustry policy brief (2014-2016)
- ✓ seminar in Benin with UNEP (2014)
- ✓ seminar in Tunisia (2016)
- ✓ seminars with FAO (2017), UNIDO (2018)
- ✓ seminar in Burkina-Faso (2019)
- ✓ workshops in India (2017, 2018, 2019)
- ✓ seminar with the World Bank (2019)
- ✓ ...
- ✓ the working group « Cold Chain in hot countries » headed by the IIR Tunisian delegate

New projects

- ✓ proposals in Senegal, Burkina-Faso, Ivory Coast...
- ✓ relations with AFD
Objective: State of the art, action plans (cf G7 and UN declarations in September 2019)
- ✓ draft IIR Informatory Notes on the cold chain and its environmental impacts; work with UN Environment and GFCCC
- ✓ education and training directory



THANK YOU

QUESTIONS ?

Didier Coulomb
d.coulomb@iifiir.org

INSTITUT INTERNATIONAL DU FROID | INTERNATIONAL INSTITUTE OF REFRIGERATION

www.iifiir.org | iif-iir@iifiir.org |  |  |  | #refrigeration