

***CX technology
for
HDPE project***



Mitsui Chemicals

What is CX?

CX is
the HDPE manufacturing technology
which Combines ideal process & catalyst
and leads to eXcellent quality.

CX process provides resins that have excellent mechanical properties maintaining outstanding process-ability. Licensed throughout the world, CX process and its products are greatly appreciated by top companies everywhere.



Application

CX process can provide resins to suit a wide variety applications.

Film



Injection



Pipe

PE-100



PE-80



Blow

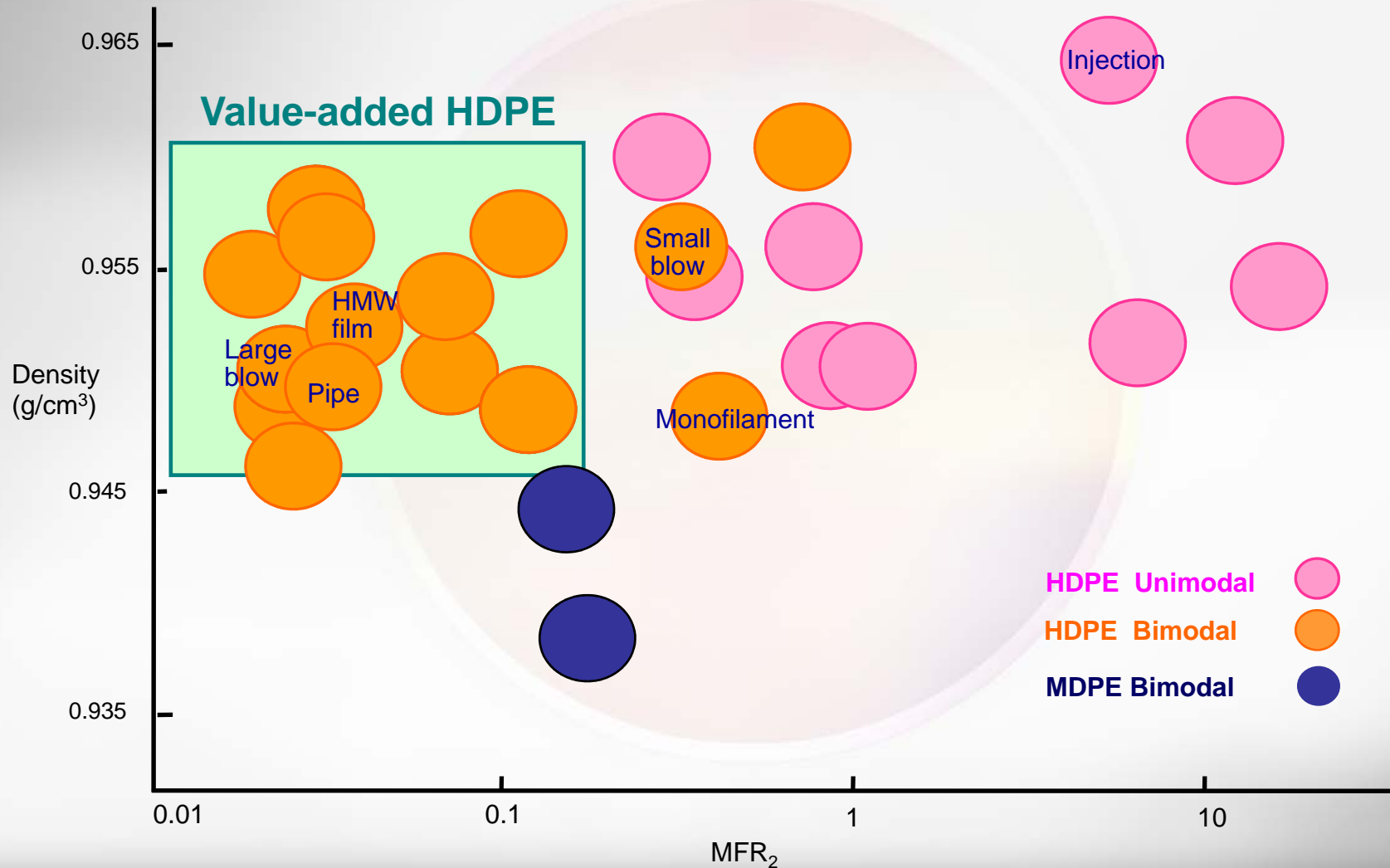


Other extrusion

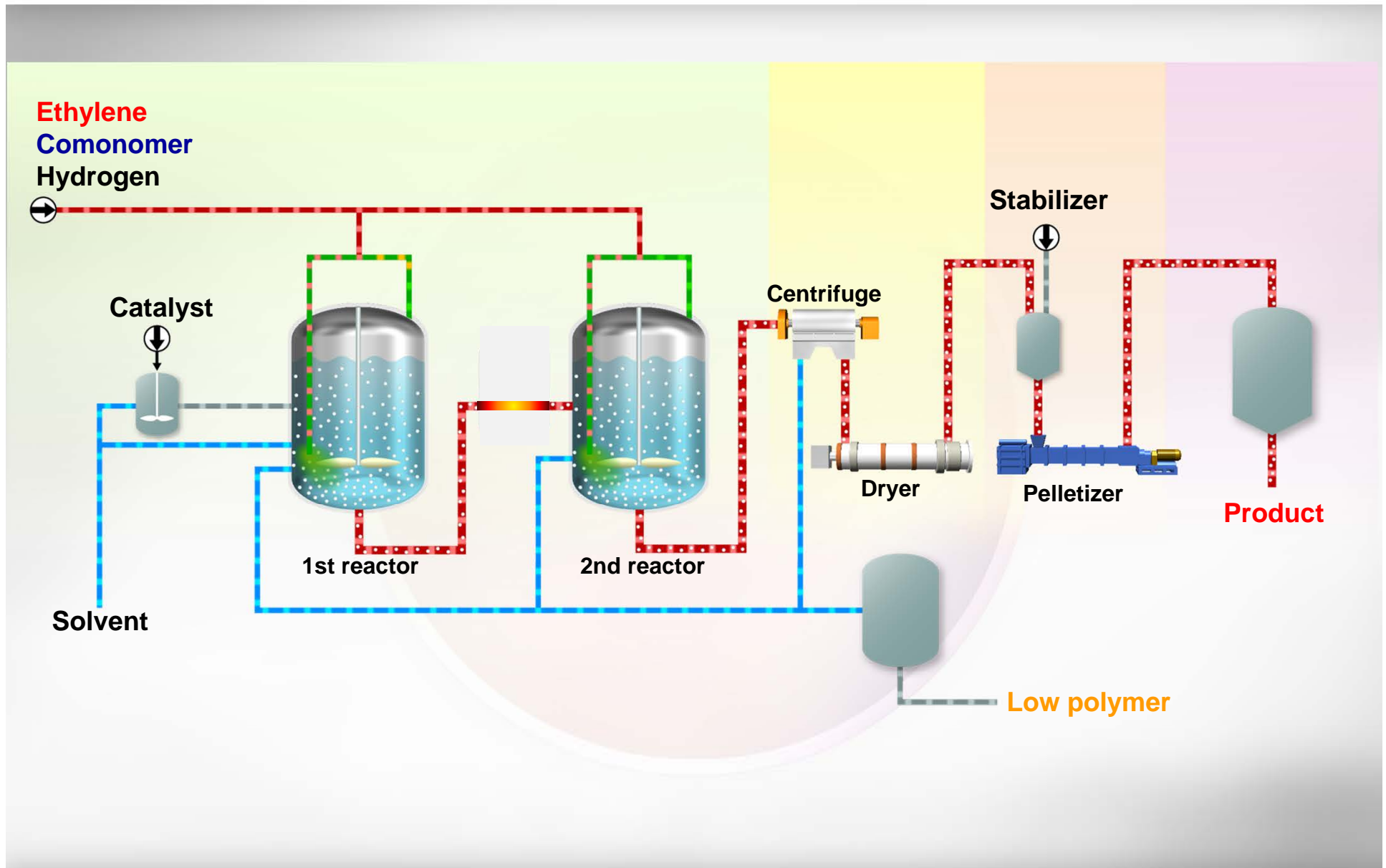


Product map

CX products cover all important applications of HDPE and MDPE



CX process flow scheme



Benefits

A. Quality

- Realize ideal HDPE polymer structure.
- Excellent property with flowability.

B. Easy & Simple operation

- Sophisticated by more than 50 years operation experience.
- The reactors can be operated without cleaning for several years.
- Ensure safety in emergency and easy restart.
- Simple catalyst preparation

C. Environment-friendly

- No VOCs (Volatile Organic Compounds) to atmosphere

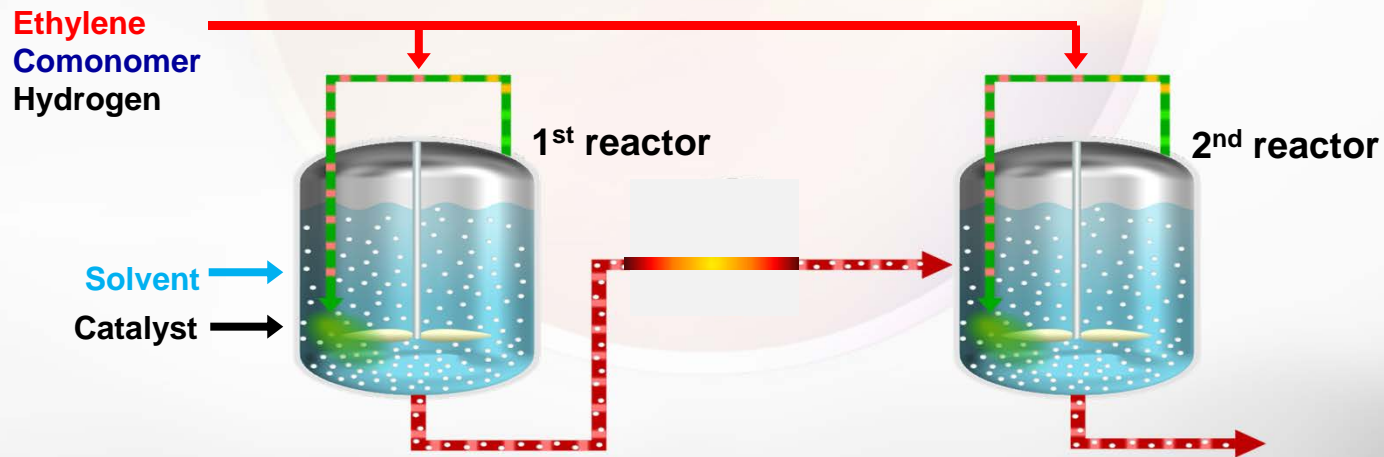
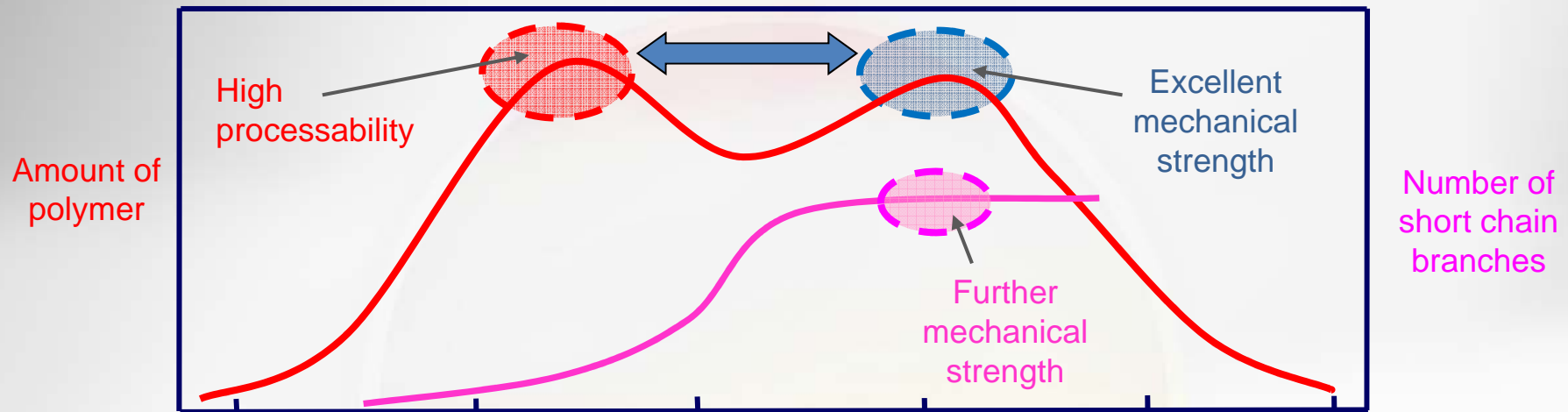
D. License Experience

- 40 years licensing experience
- Recorded 48 CX plants & over 7 million tons/year.

Concept of process for excellent bimodal HDPE

A: Quality

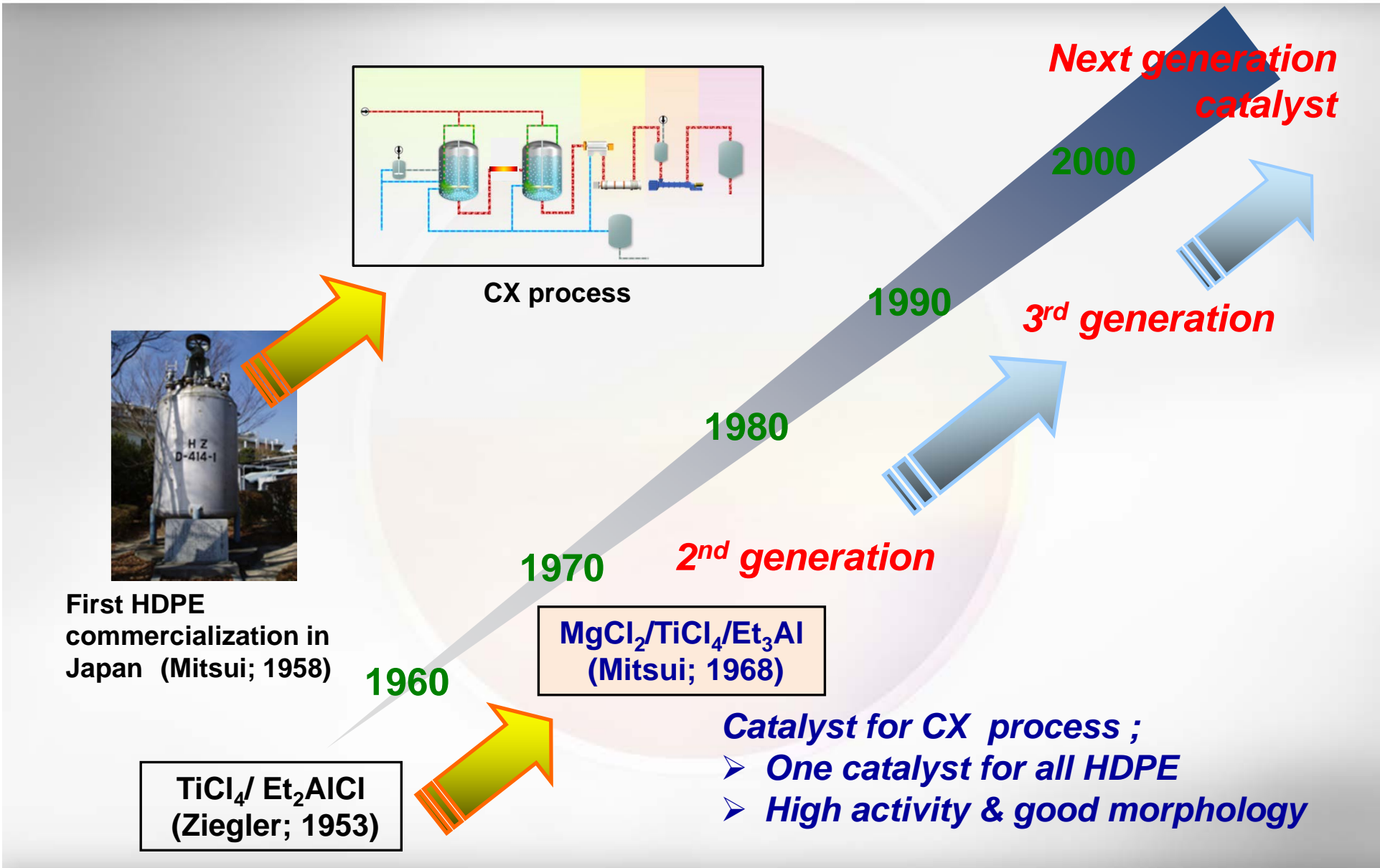
Bimodal slurry phase process leads to high quality HMW-HDPE





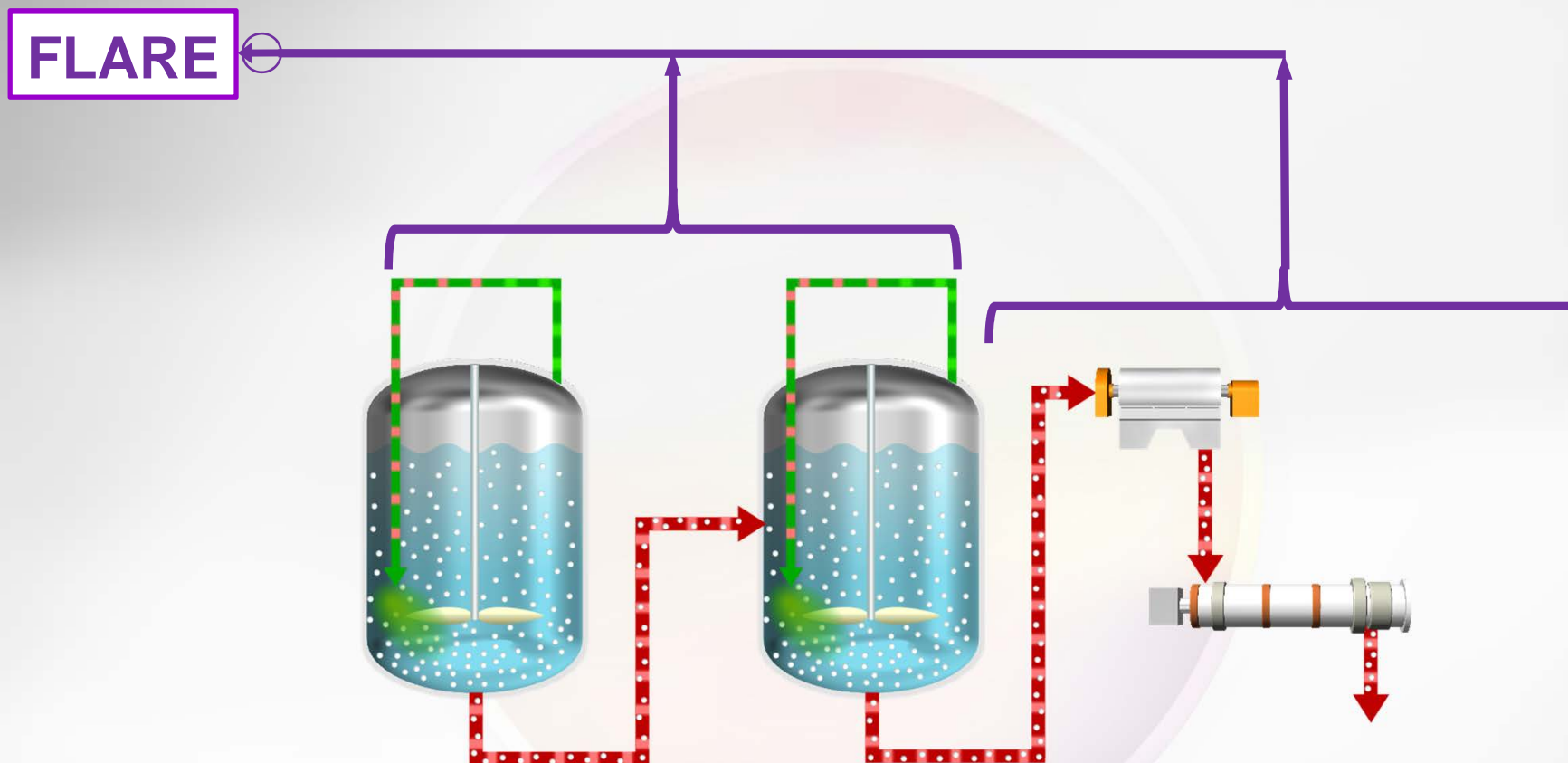
Catalyst for CX process (Produced by Mitsui Chemicals)

B. Easy & Simple operation



No VOCs from CX process

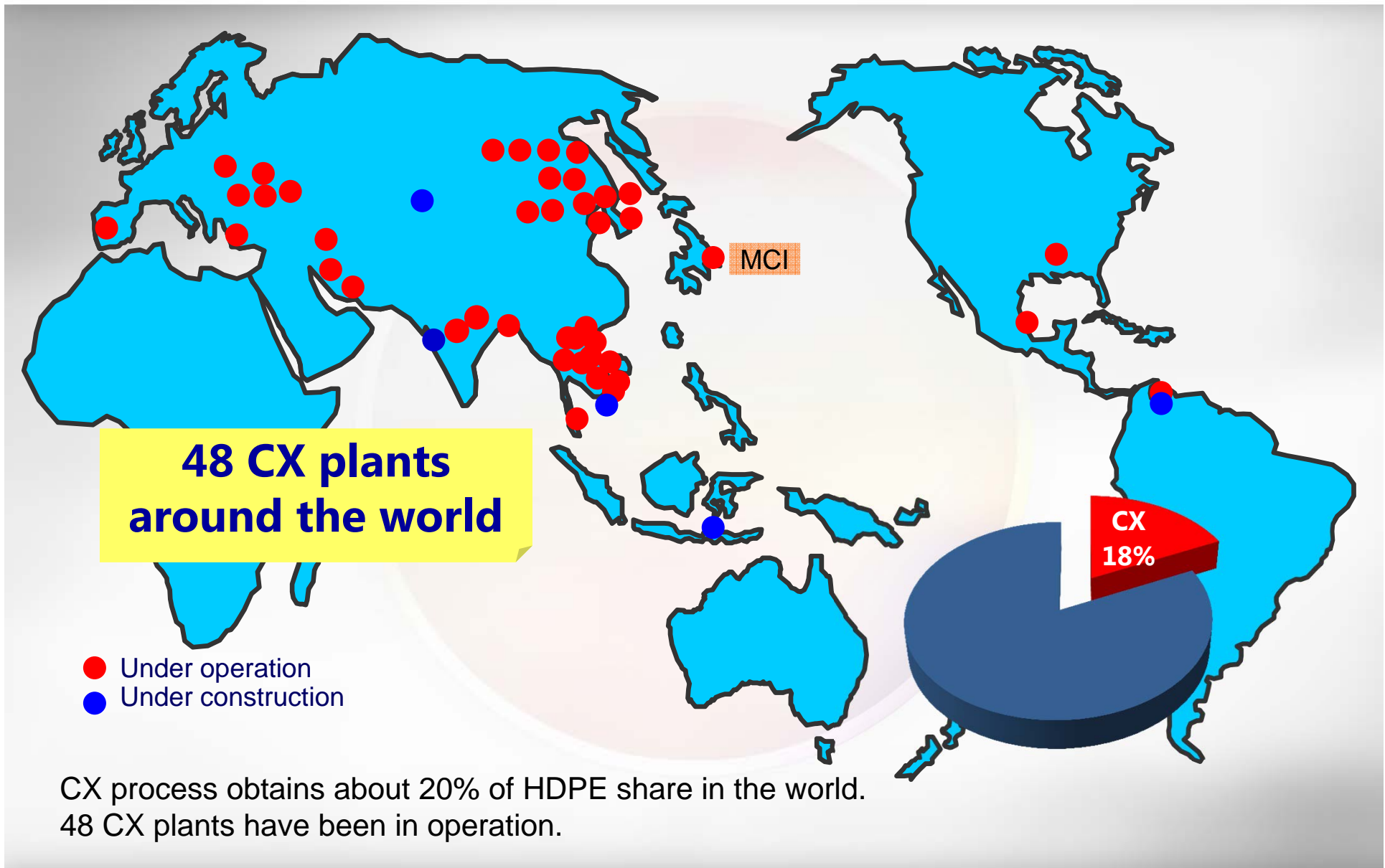
C. Environment-friendly



Emission of Volatile Organic Compounds (VOC) is one of the most important environment problem. In CX process, VOC from the plant can be sent to flare, **there is no emission of VOC into the atmosphere.**

Licensee location

D. License experience



CX process license experience

D. License experience



CX license activity started from 1976 and it is sophisticated through about 40 years experience. The maximum plant size has reached to 500 KTA.

CX licensee & licensor conference (CXLC)

***Sharing information of CX worldwide
and
CXLC has high reputation***

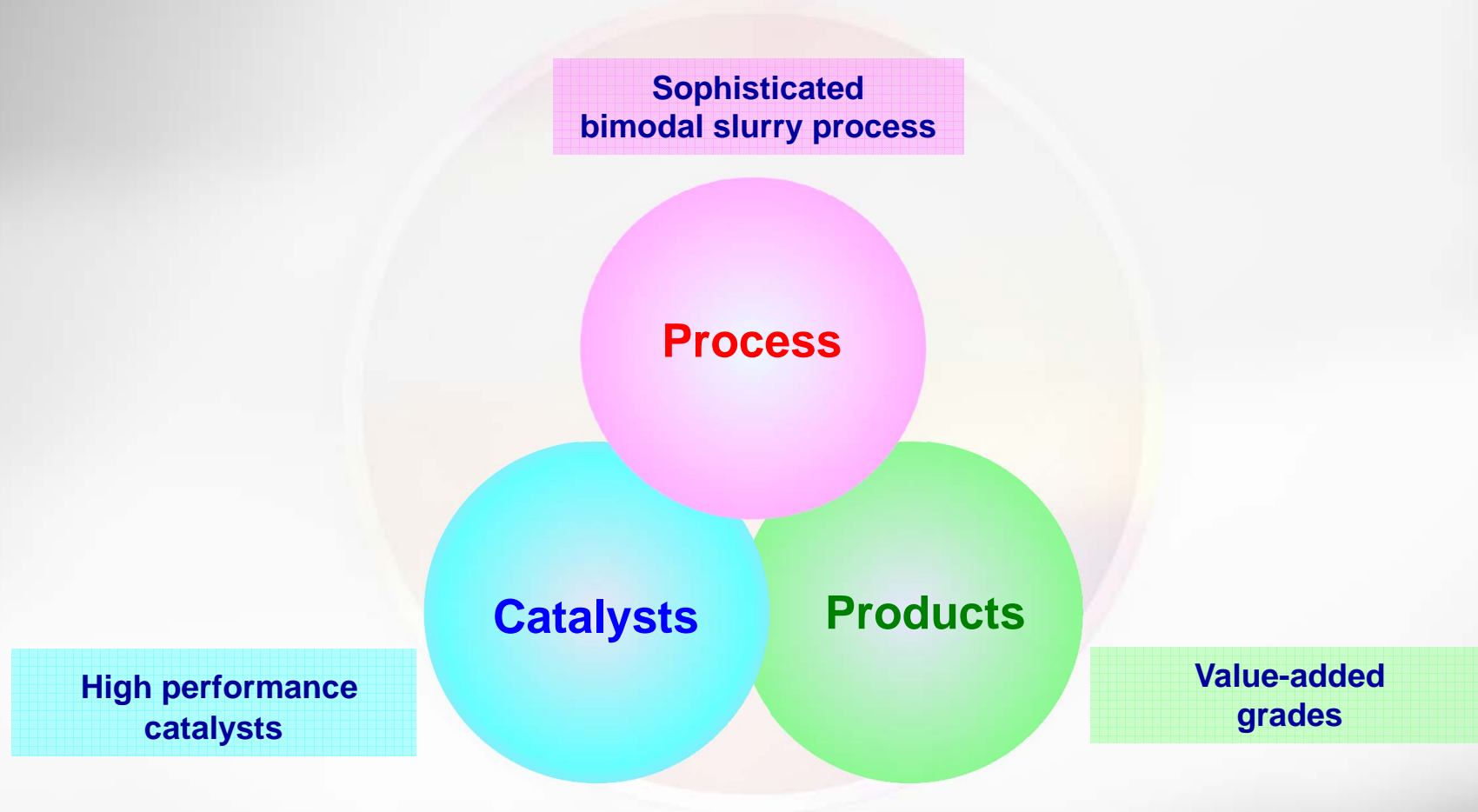
	(Companies)
1. CXLC1999	13
2. CXLC2001	9
3. CXLC2003	11
4. CXLC2005	14
5. CXLC2007	13
6. CXLC2010	12
7. CXLC2013	12
8. CXLC2015	11



MCI has conducted a “CX Licensee and Licensor Conference” every other year since 1999 to share information on plant operation improvements, troubleshooting activities, and product information, etc.

Summary

MCI's HDPE technology brings huge benefits to all your projects



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