



PetroSA

The Petroleum Oil and Gas Corporation
of South Africa (SOC) Ltd

Process Safety Incidents

SAPIA

Thursday, 30 January 2020

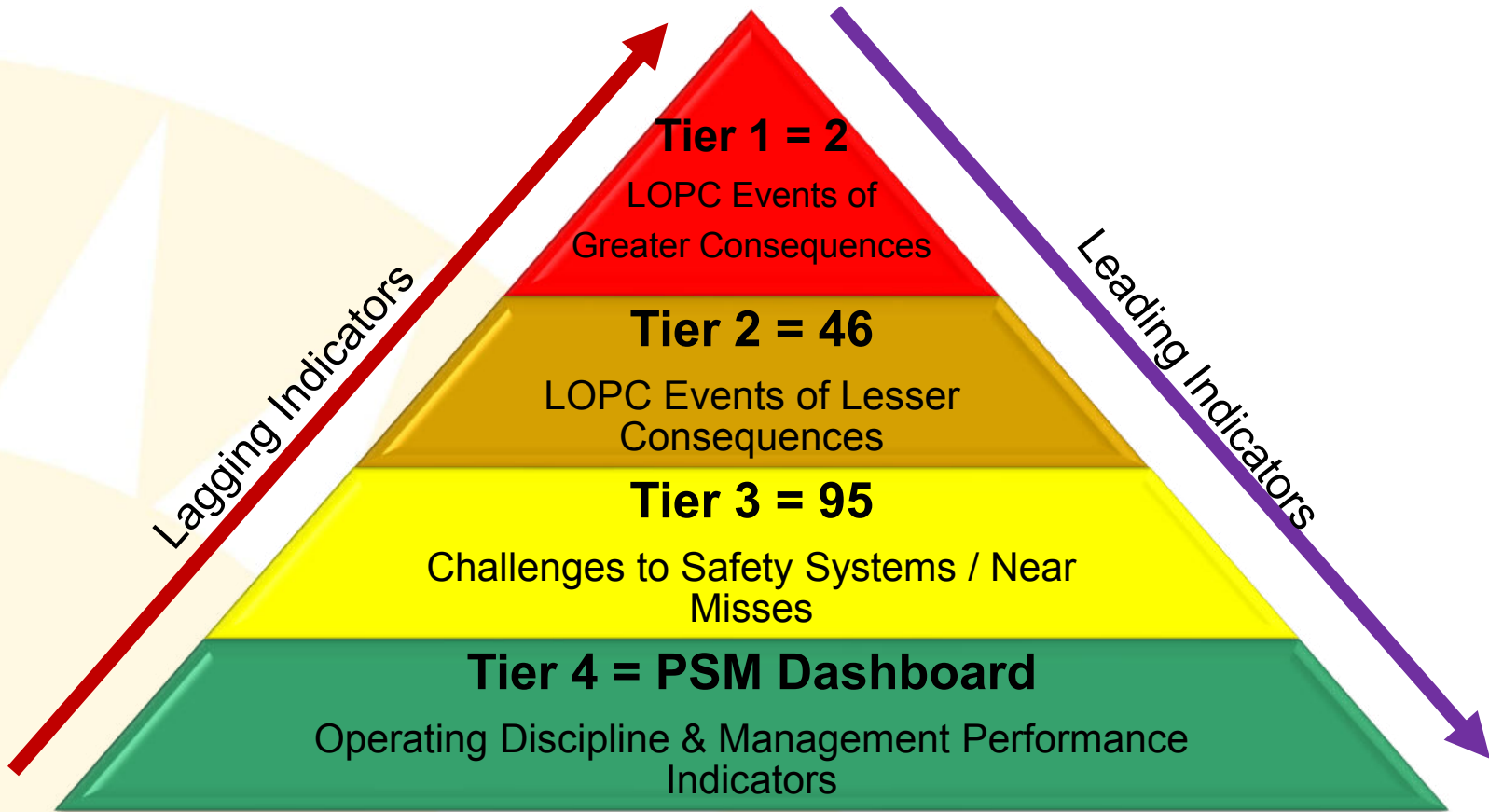




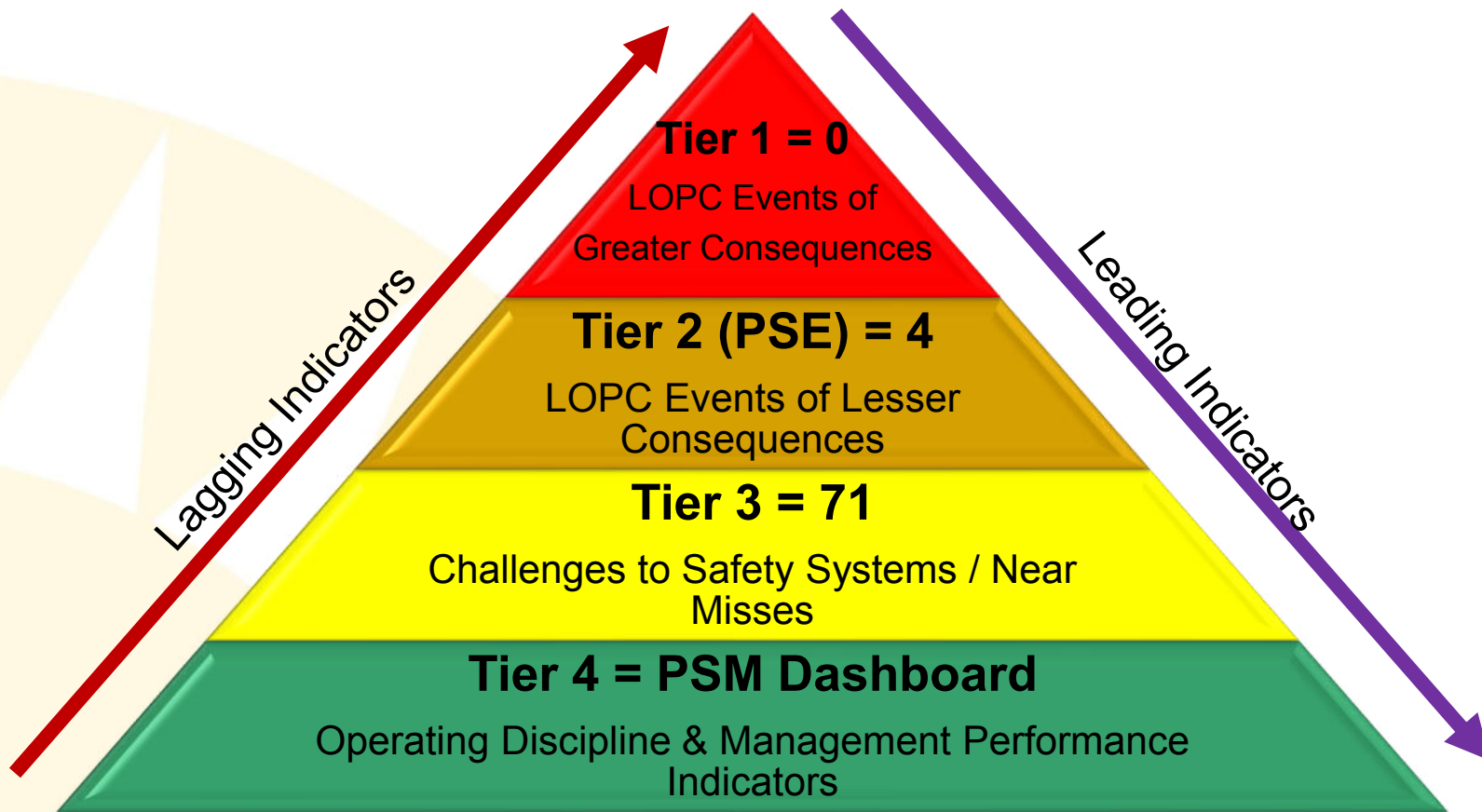
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Process Safety Occurrences: GTL Refinery

1 April 2018 – 31 March 2019



Tier 1 Incidents: Operator Error + Operating Rule Violation



ZERO PSIs. Substantial Reduction in PSE's. No real increase in near misses / LOPC's of lower impact.



Process Safety Events: 1 Oct 2019 – 31 Dec 2019

Description	Process Unit	Cause
Pinhole leak.	Conversion of Olefins to Distillates (COD) Unit	Pinhole leak on pipe spool piece upstream of a shutoff valve.
Air Cooler tube leak – no fire.	Naphtha Hydrotreater (NHT)	Organic chloride corrosion.
Fire at Fired Heater A-Pilot during unit start-up.	Naptha Hydrotreater (NHT)	Startup procedure was not followed (overfilled drum).

Incident reports approved. LFIs being prepared for sharing @ Safety Stand Down in February 2020:

- Air cooler tube failure, and
- Fire at the fired heater pilot.



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All Process Safety Occurrences

- 1 Oct 2019 – 31 Dec 2019 -

Category	Number	%
Pinhole leaks	7	29
Flange leaks	8	33
Trips	3	12
Pump seal leaks	2	8
PSV lifting @ start-up	1	4
Spillages	1	4
Liquid Fire @ FH Pilot	1	4
Incorrect process isolation	1	4
	24	

Good decreasing trends observed with pump seal failures and flange leaks, but certainly still concerning.



Q & A...

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