



## Fun With Data

Are we driven by data, or is data driving us nuts?

Carl Weimer, Executive Director

**Pipeline Safety**  
  
**T R U S T**

**Credible.  
Independent.  
In the public interest.**

2,210,066 Miles

212,635 Miles

300,324 Miles

## 2016 Mileage of Different Types of Pipelines

### Choices

- ✓ Gas Transmission Pipelines
- ✓ Hazardous Liquid Pipelines
- ✓ Gas Distribution Pipelines
- ✓ Gas Gathering Lines

17606 Miles (?????)

2,210,066 Miles  
Gas Distribution

212,635 Miles

300,324 Miles

## 2016 Mileage of Different Types of Pipelines

### Choices

- ✓ Gas Transmission Pipelines
- ✓ Hazardous Liquid Pipelines
- ✓ Gas Distribution Pipelines
- ✓ Gas Gathering Lines

17606 Miles (?????)

2,210,066 Miles  
Gas Distribution

212,635 Miles  
Hazardous Liquid

300,324 Miles

## 2016 Mileage of Different Types of Pipelines

### Choices

- ✓ Gas Transmission Pipelines
- ✓ Hazardous Liquid Pipelines
- ✓ Gas Distribution Pipelines
- ✓ Gas Gathering Lines

17606 Miles (?????)

2,210,066 Miles  
Gas Distribution

212,635 Miles  
Hazardous Liquid

300,324 Miles  
Gas Transmission

## 2016 Mileage of Different Types of Pipelines

### Choices

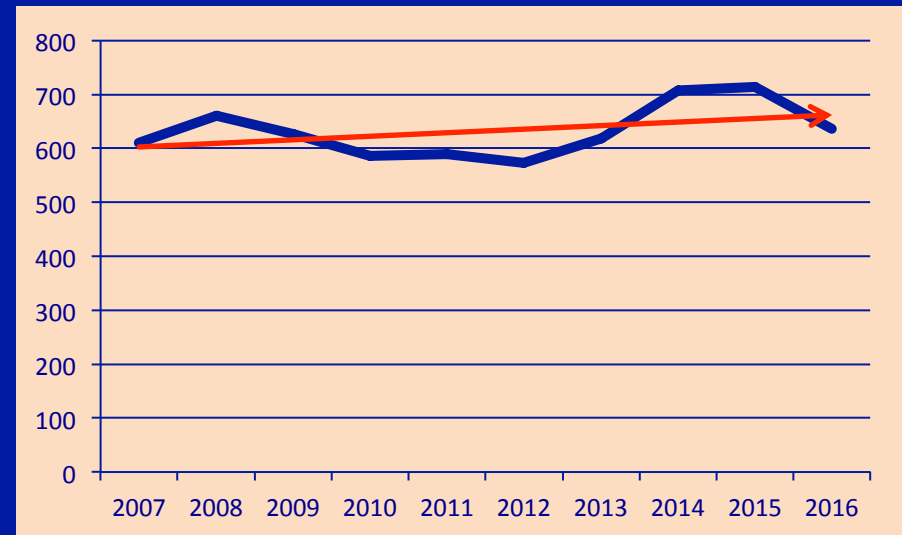
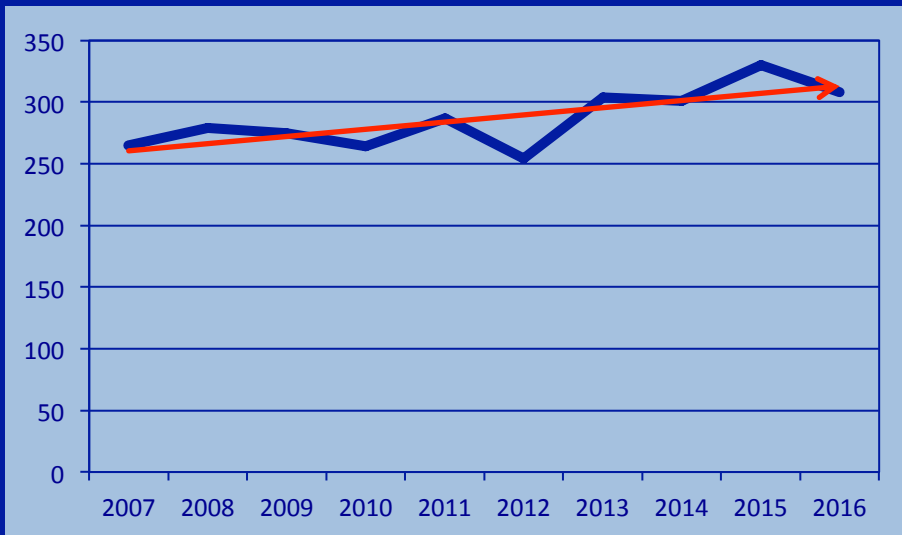
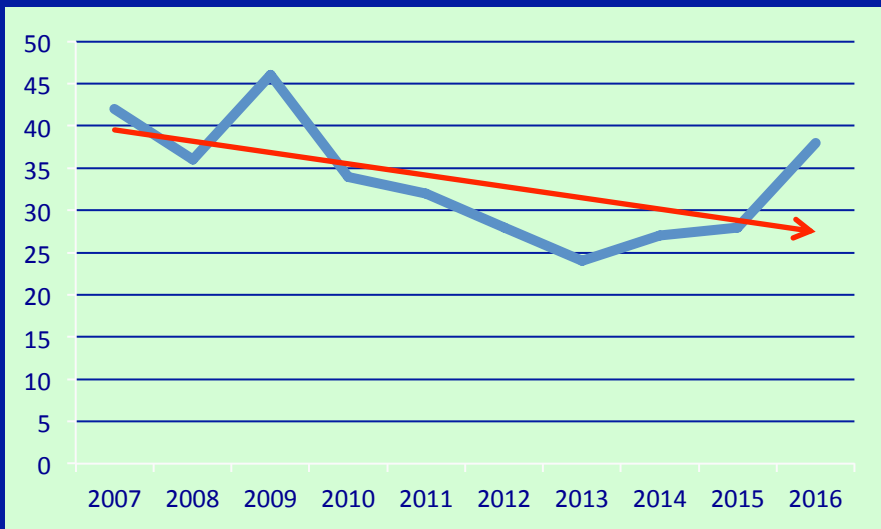
- ✓ Gas Transmission Pipelines
- ✓ Hazardous Liquid Pipelines
- ✓ Gas Distribution Pipelines
- ✓ Gas Gathering Lines

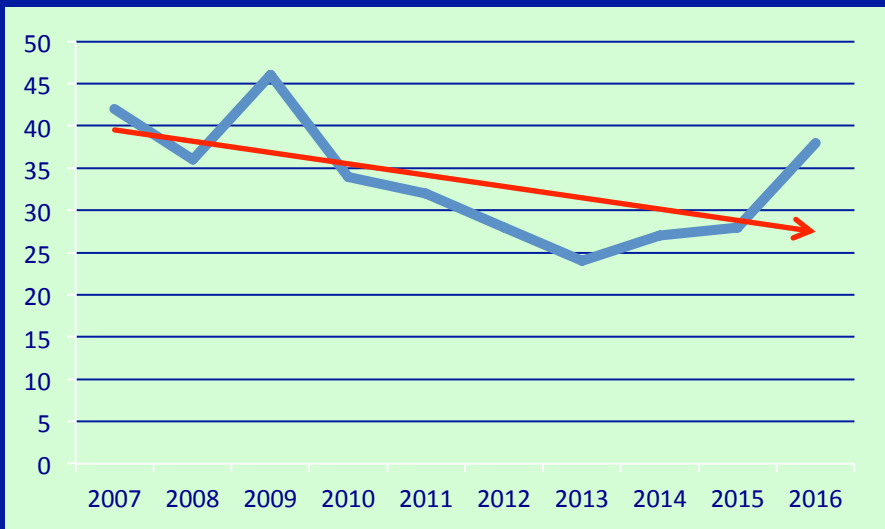
17606 Miles (?????)  
Gas Gathering

# Different Types of Incidents per Year – All Pipelines

## Choices

- ✓ All Reportable Incidents
- ✓ Serious Incidents
- ✓ Significant Incidents



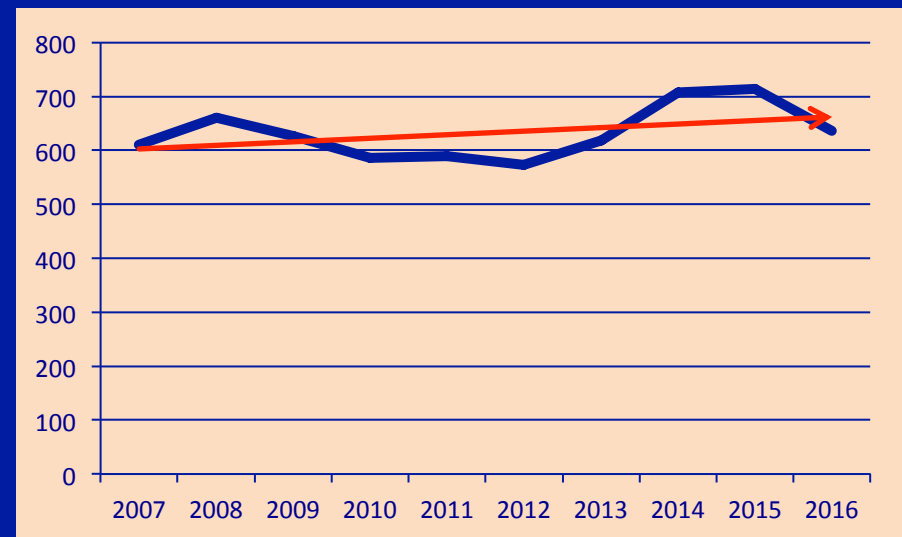
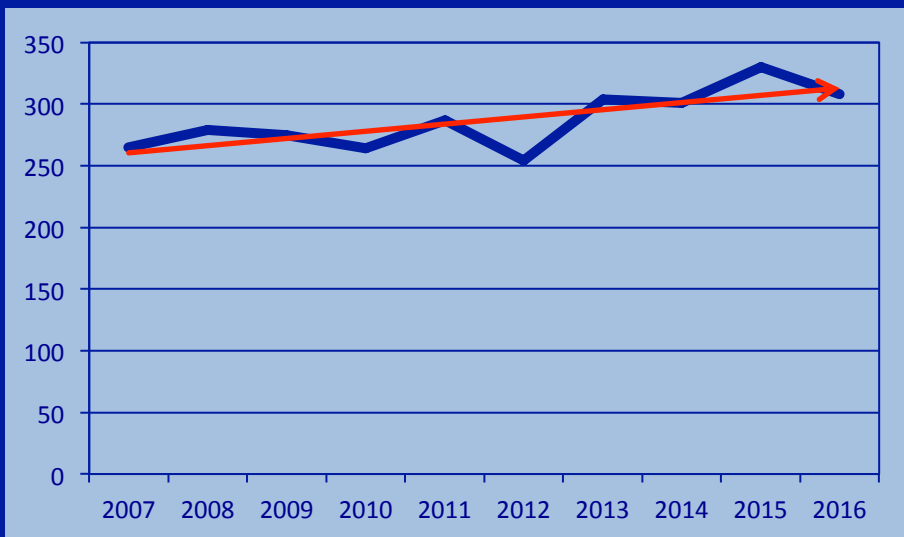


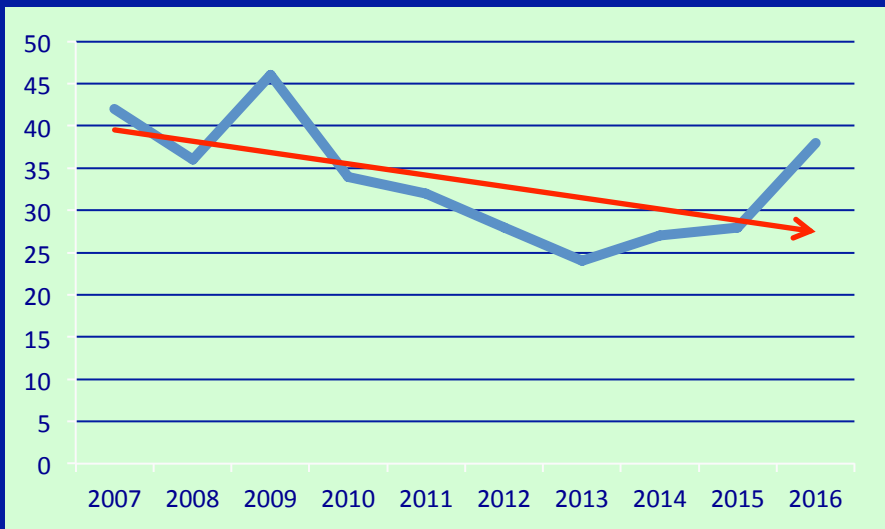
Serious Incidents

## Different Types of Incidents per Year – All Pipelines

### Choices

- ✓ All Reportable Incidents
- ✓ Serious Incidents
- ✓ Significant Incidents



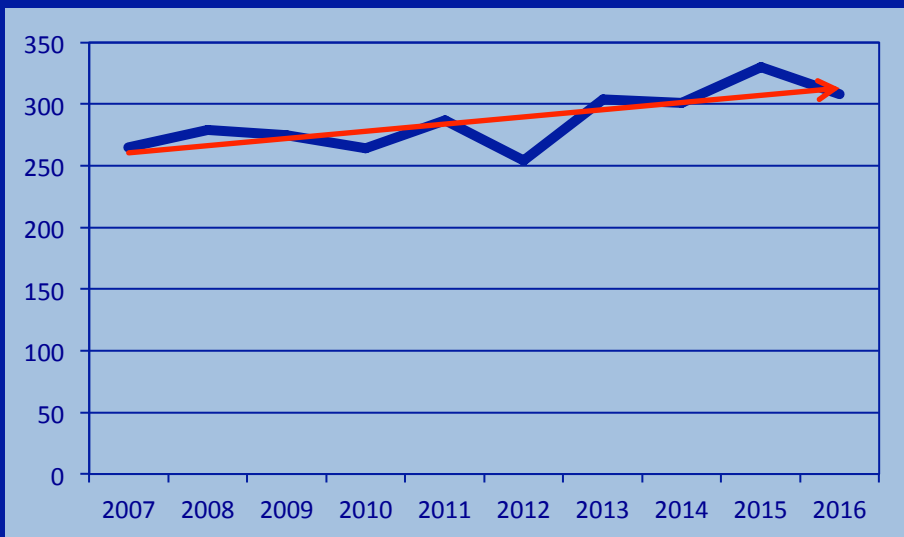


Serious Incidents

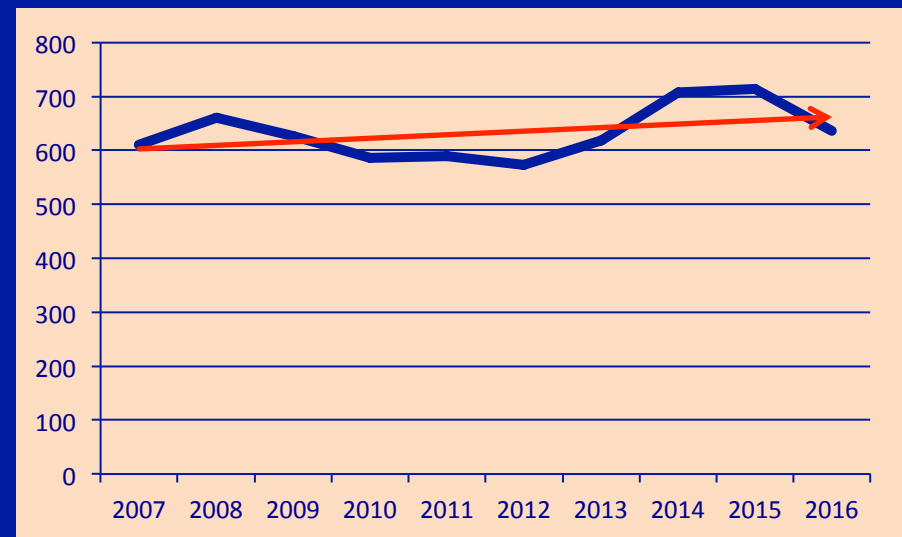
## Different Types of Incidents per Year – All Pipelines

### Choices

- ✓ All Reportable Incidents
- ✓ Serious Incidents
- ✓ Significant Incidents



Significant Incidents

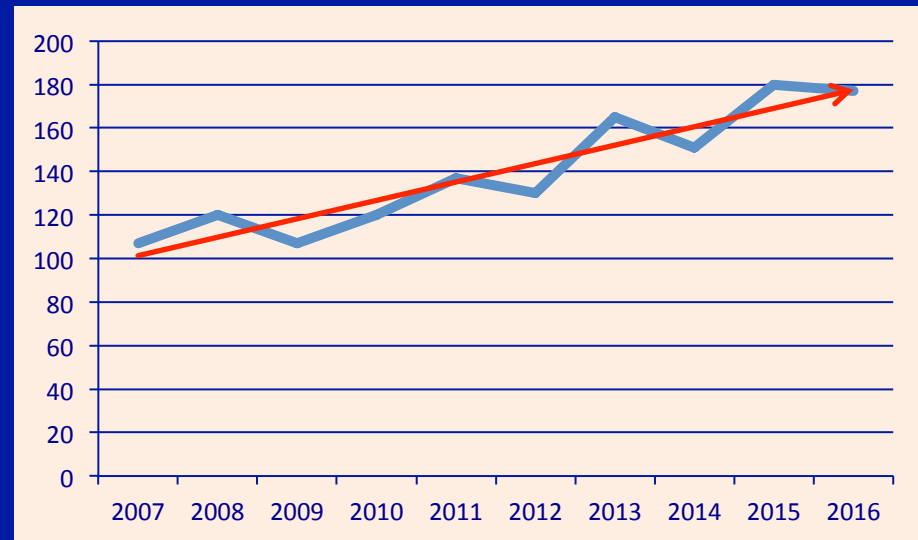
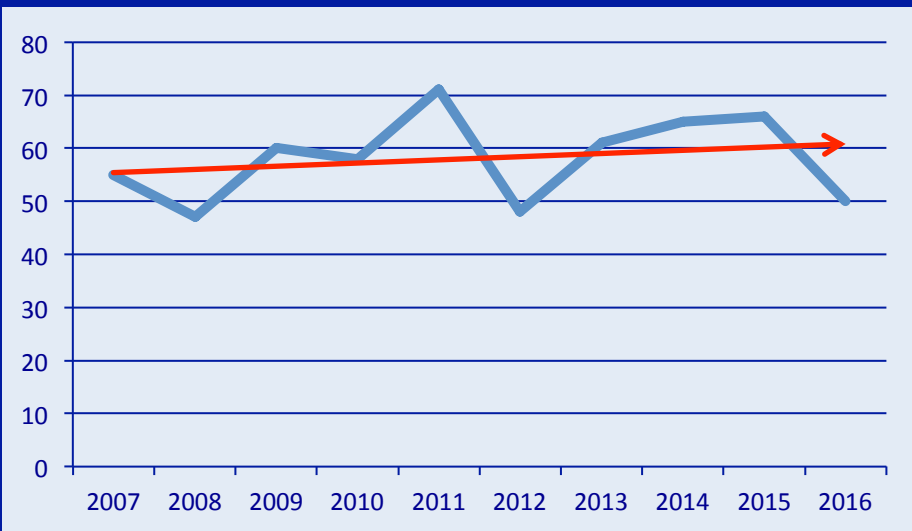
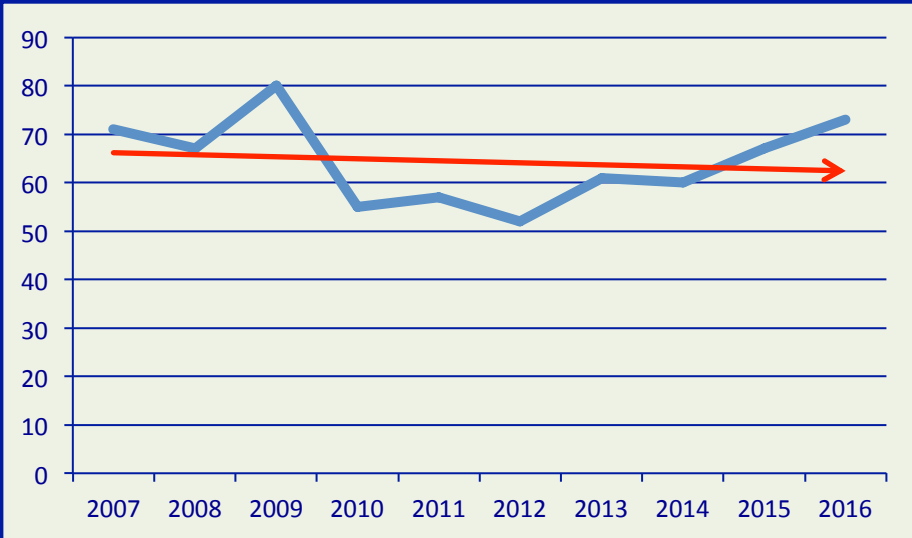


All Reportable Incidents



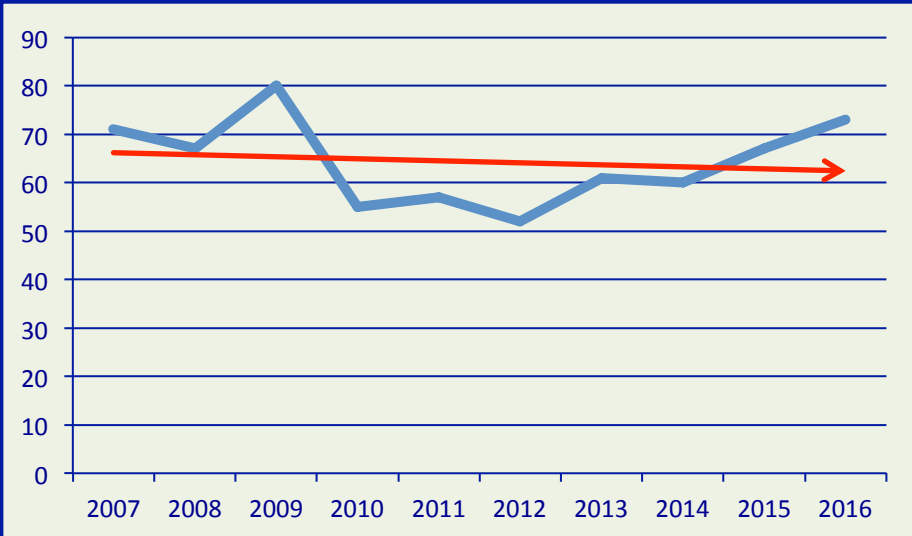
# Significant Incidents/Year Choices

- ✓ Hazardous Liquid Pipelines
- ✓ Gas Distribution Pipelines
- ✓ Gas Transmission Pipelines

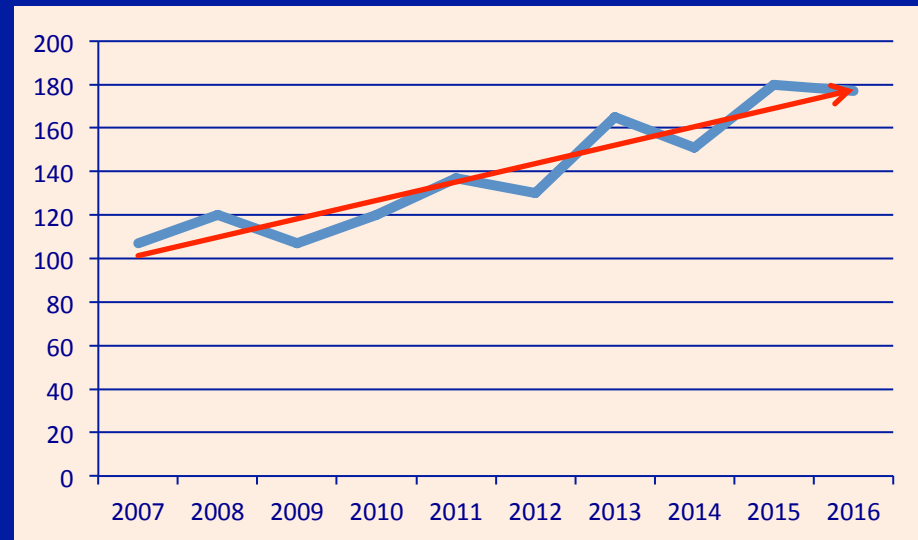
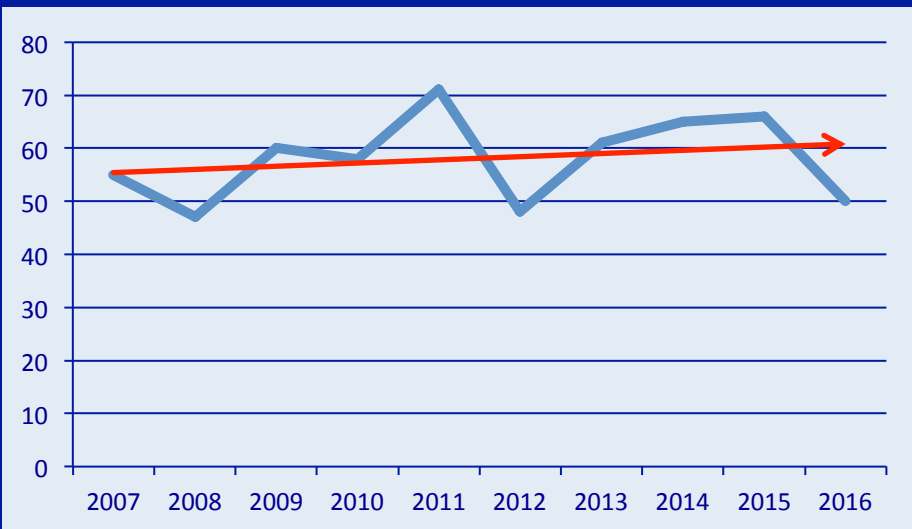


# Significant Incidents/Year Choices

- ✓ Hazardous Liquid Pipelines
- ✓ Gas Distribution Pipelines
- ✓ Gas Transmission Pipelines

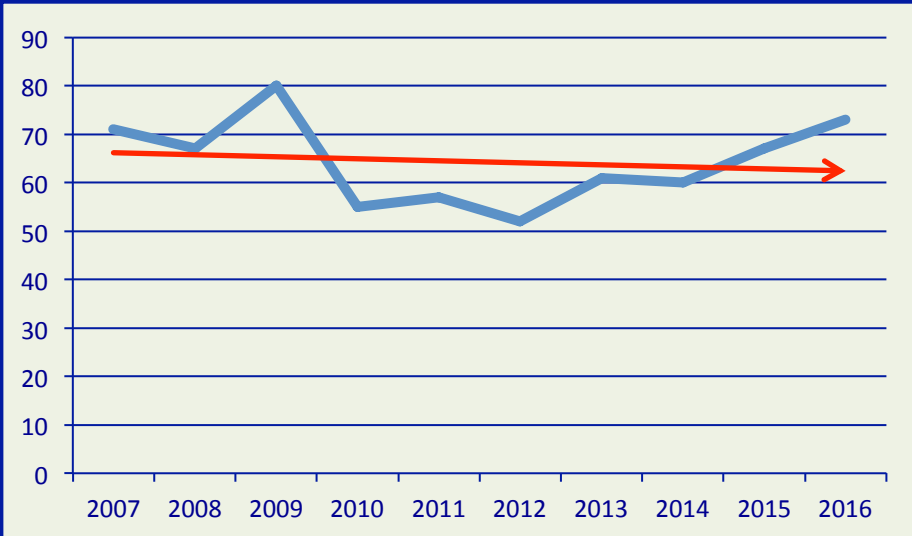


Gas Distribution Pipelines

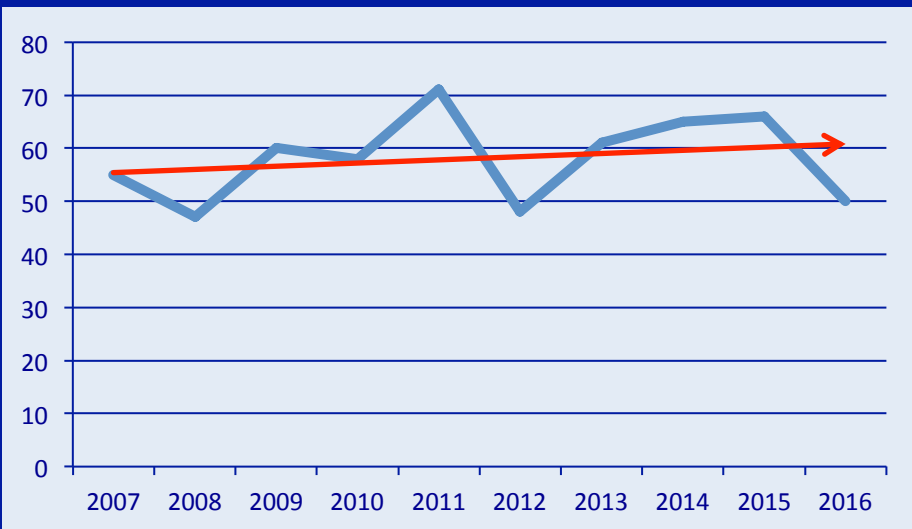


# Significant Incidents/Year Choices

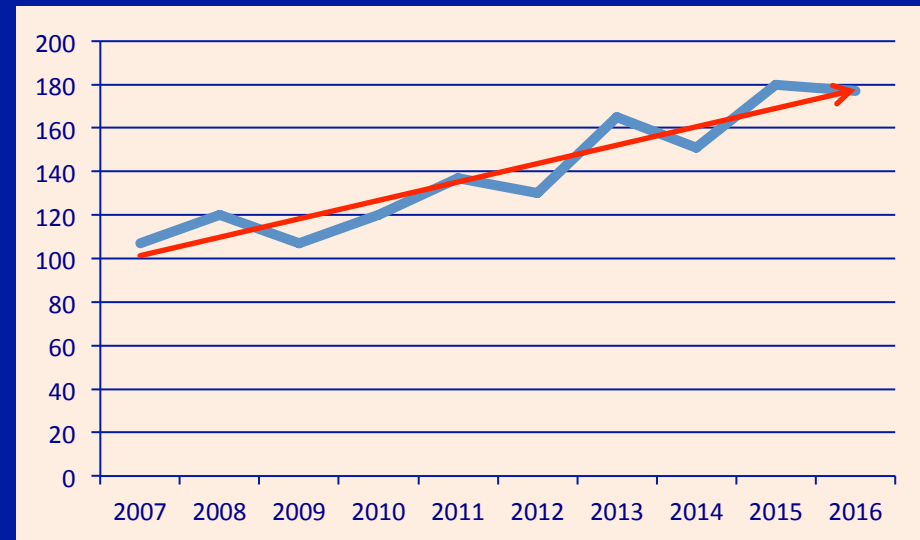
- ✓ Hazardous Liquid Pipelines
- ✓ Gas Distribution Pipelines
- ✓ Gas Transmission Pipelines



Gas Distribution Pipelines



Gas Transmission Pipelines

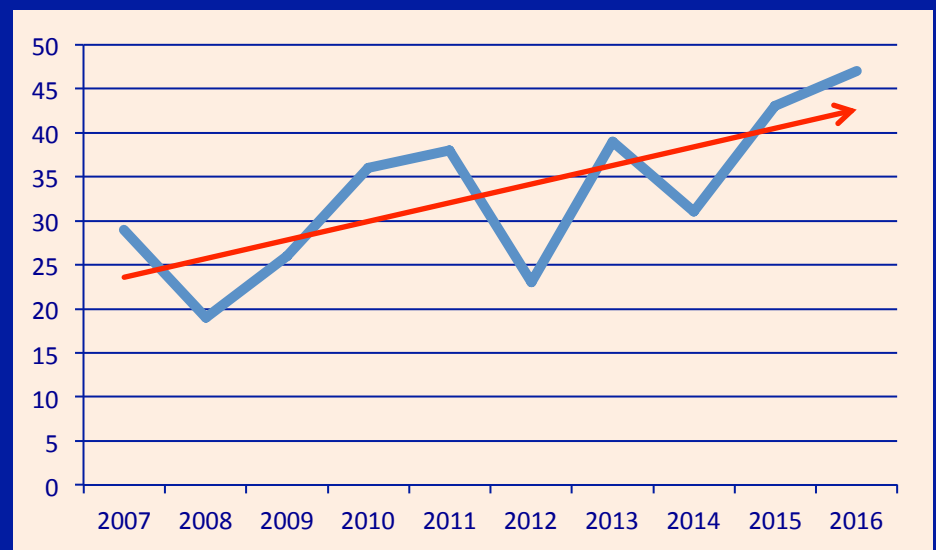
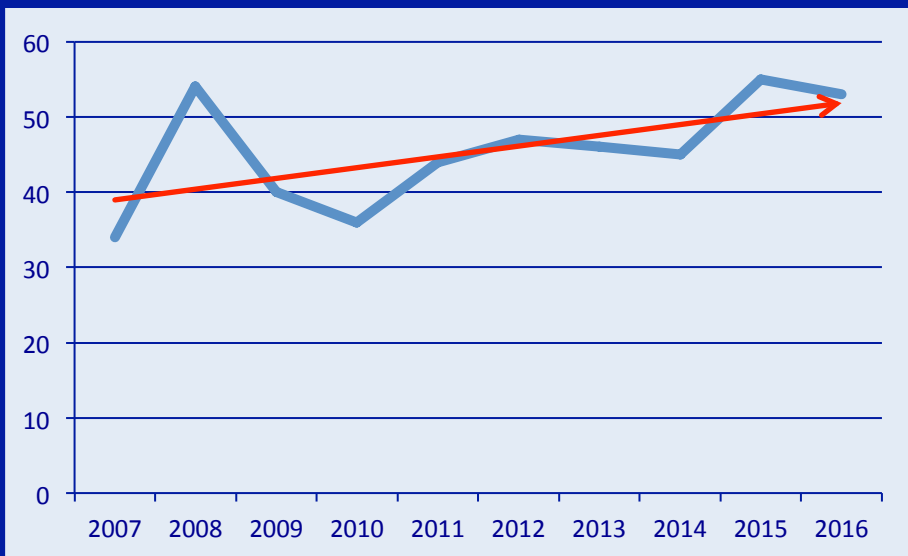
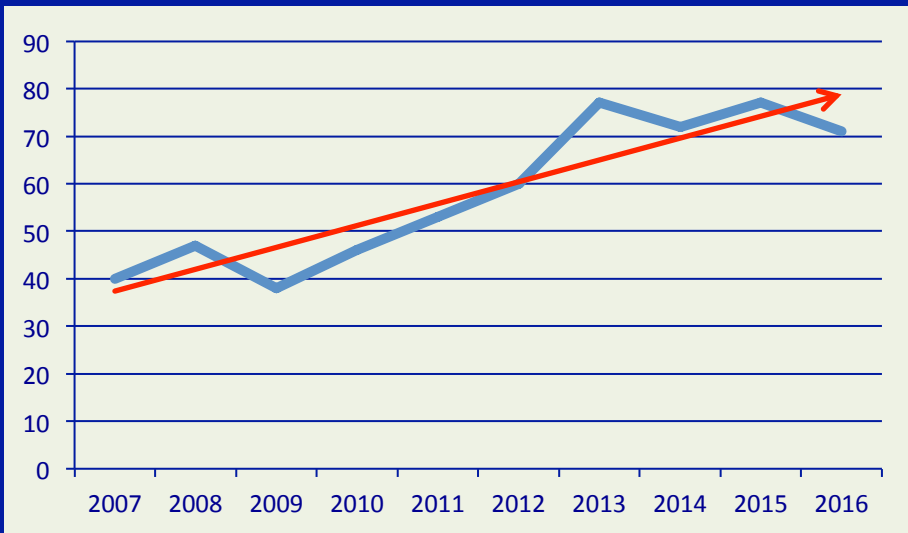


Hazardous Liquid Pipelines

# Hazardous Liquid Pipelines Incidents/year

## Choices

- ✓ Crude Oil
- ✓ Refined Products
- ✓ HVLs

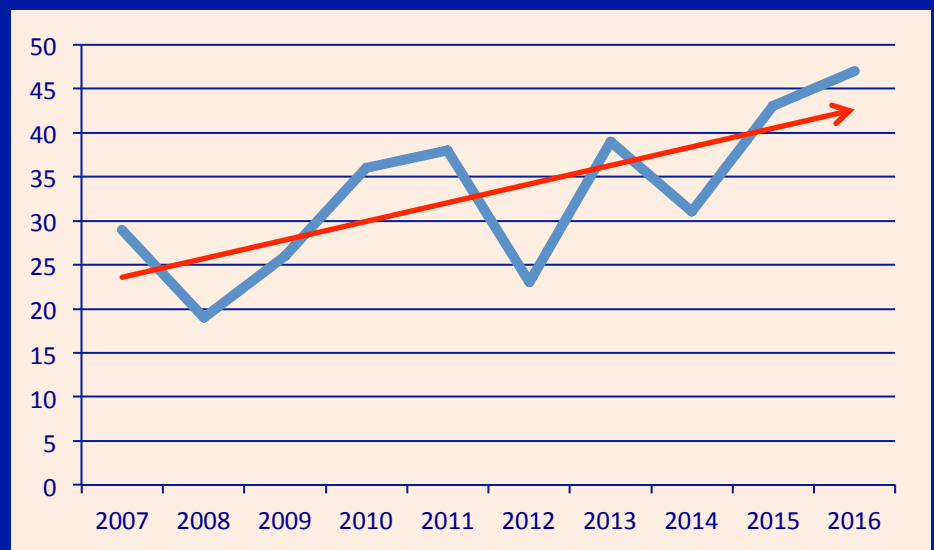
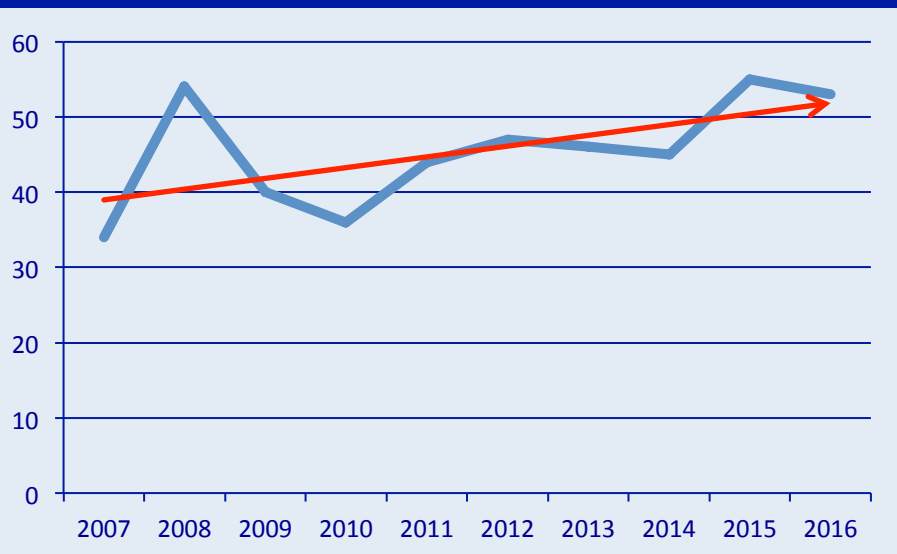
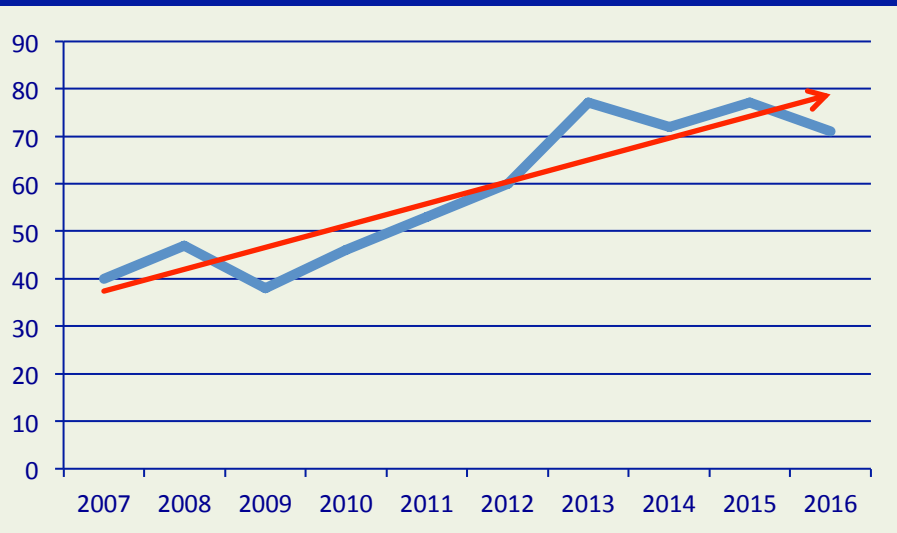


# Hazardous Liquid Pipelines Incidents/year

## Choices

- ✓ Crude Oil
- ✓ Refined Products
- ✓ HVLs

### Crude Oil

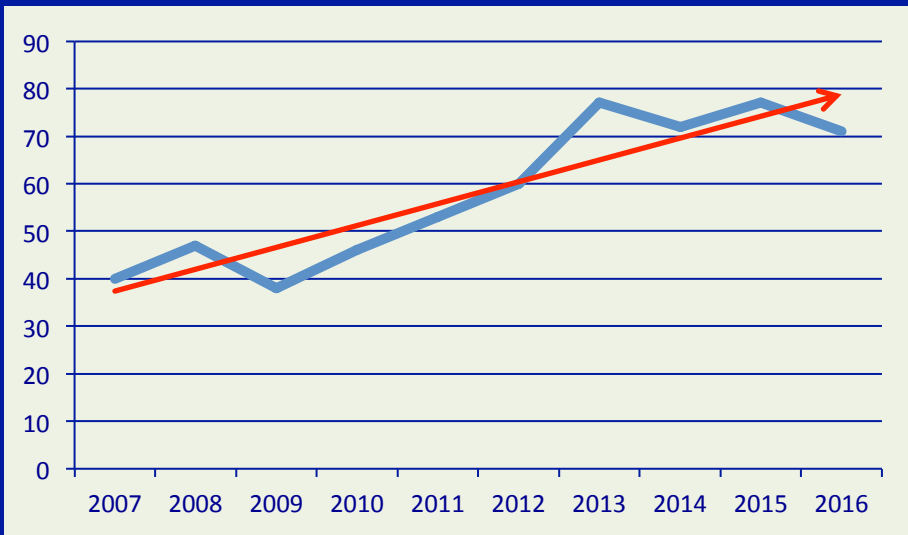


# Hazardous Liquid Pipelines Incidents/year

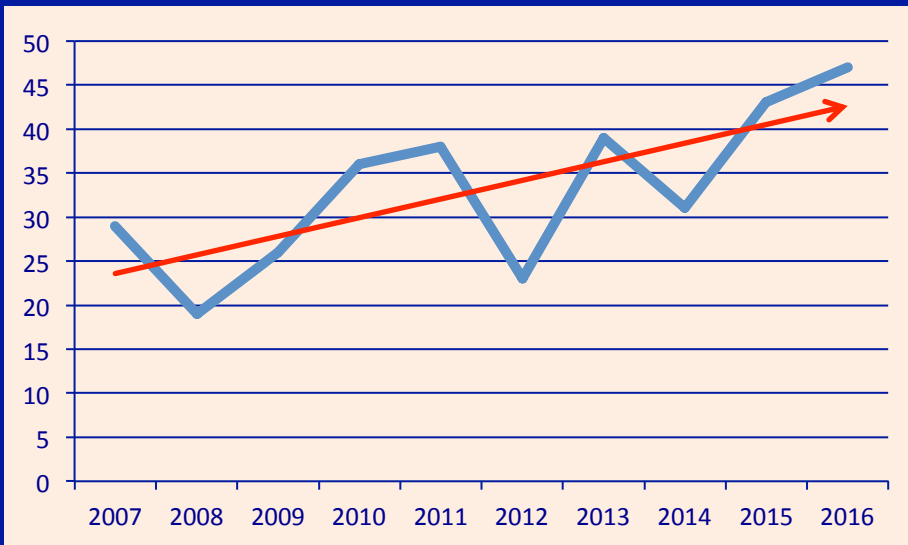
## Choices

- ✓ Crude Oil
- ✓ Refined Products
- ✓ HVLs

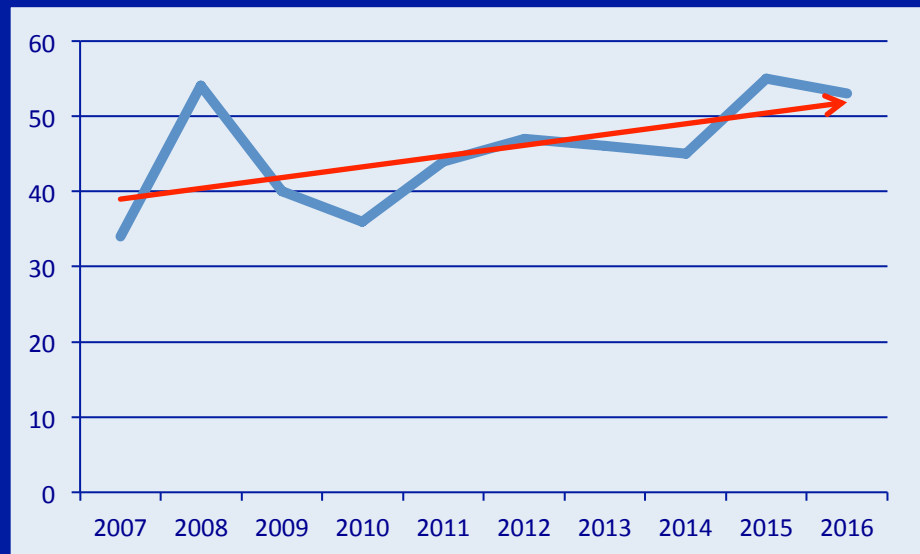
### Crude Oil



### HVLs



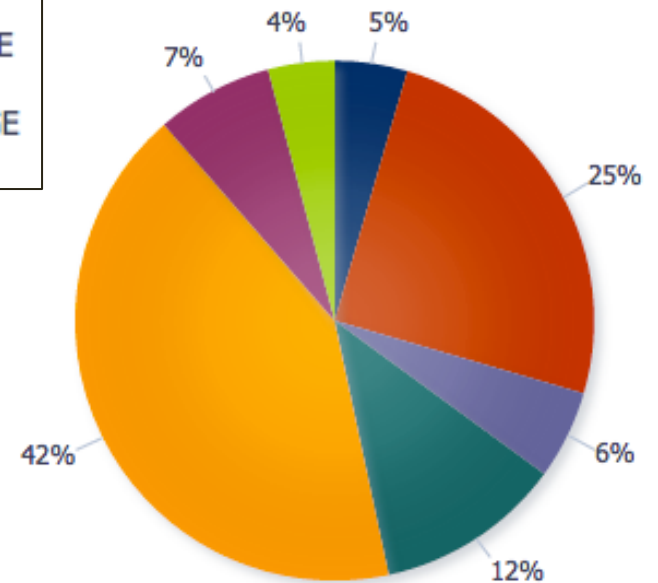
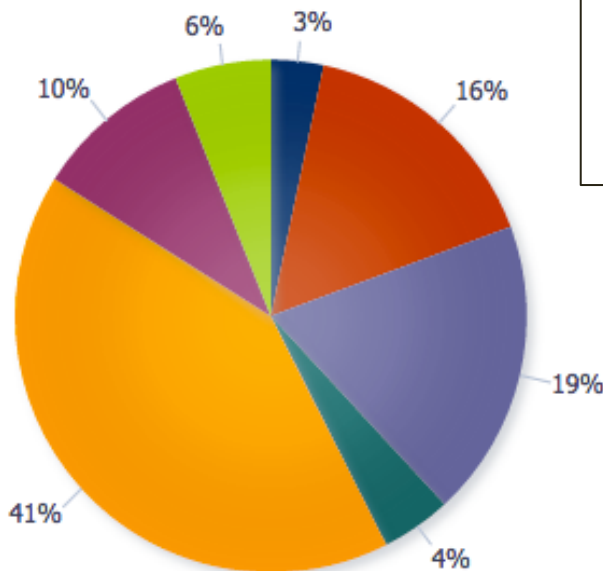
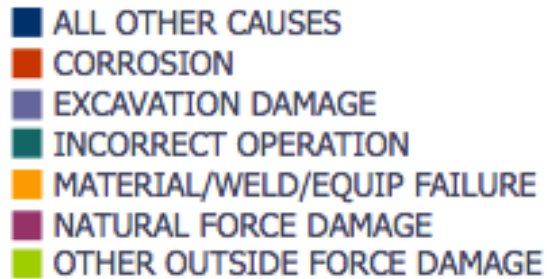
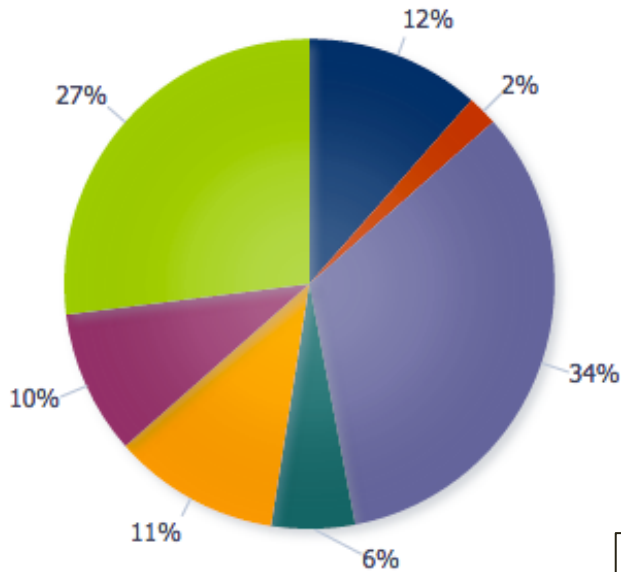
### Refined Products



# Causes of Significant Incidents

## Choices

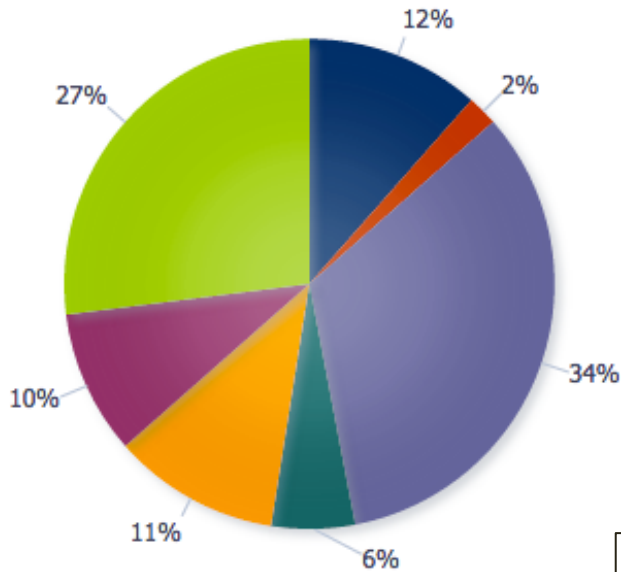
- ✓ Gas Transmission Pipelines
- ✓ Hazardous Liquid Pipelines
- ✓ Gas Distribution Pipelines\*



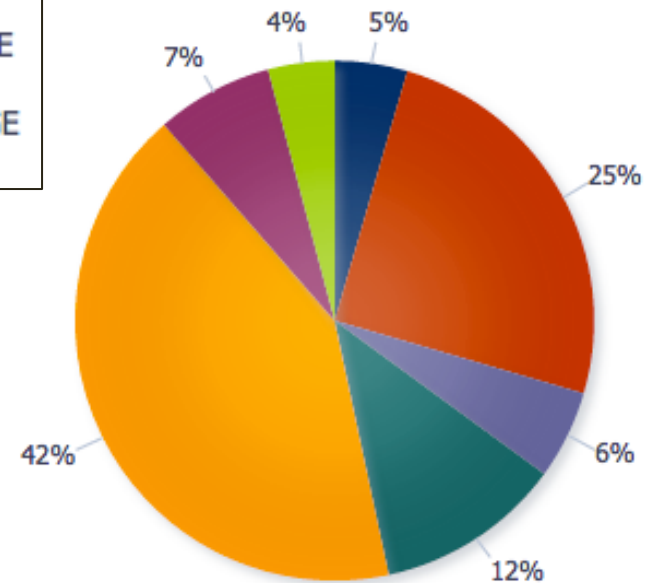
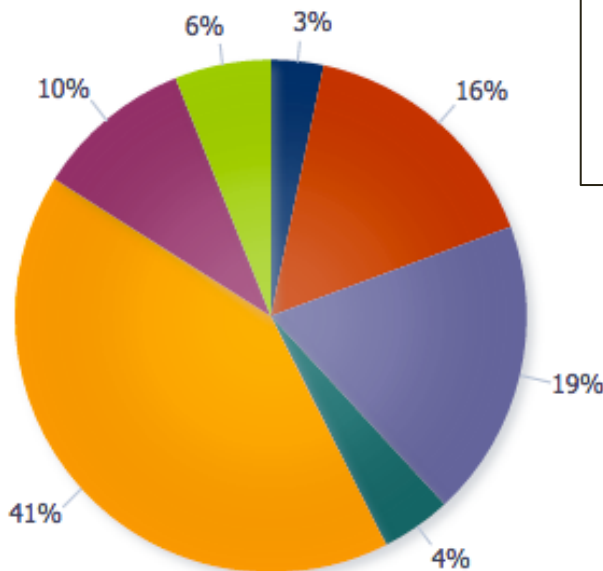
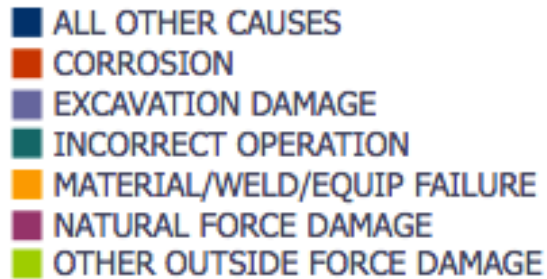
# Causes of Significant Incidents

## Choices

- ✓ Gas Transmission Pipelines
- ✓ Hazardous Liquid Pipelines
- ✓ Gas Distribution Pipelines



Gas Distribution Pipelines

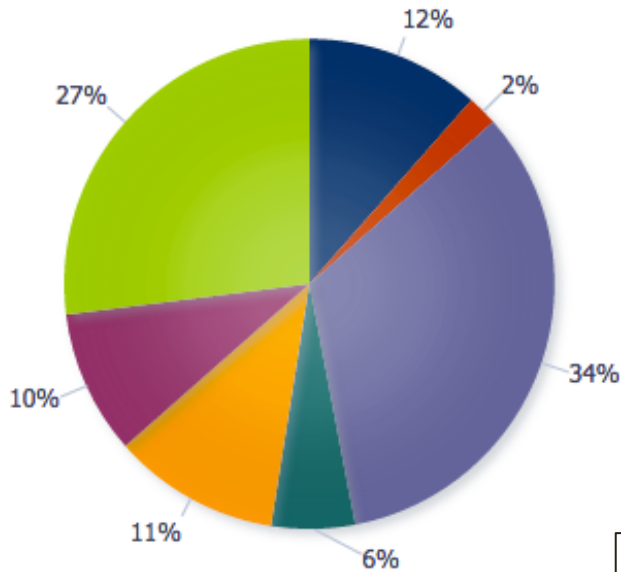




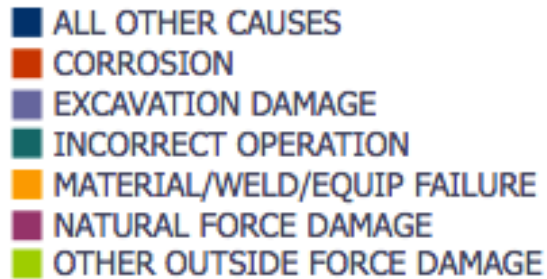
# Causes of Significant Incidents

## Choices

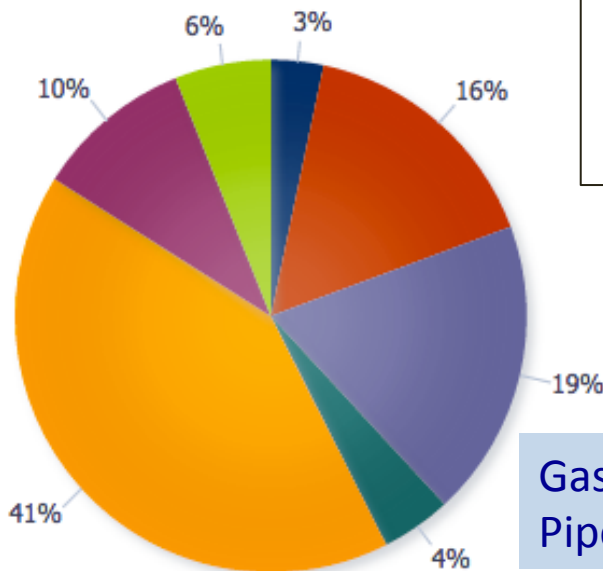
- ✓ Gas Transmission Pipelines
- ✓ Hazardous Liquid Pipelines
- ✓ Gas Distribution Pipelines



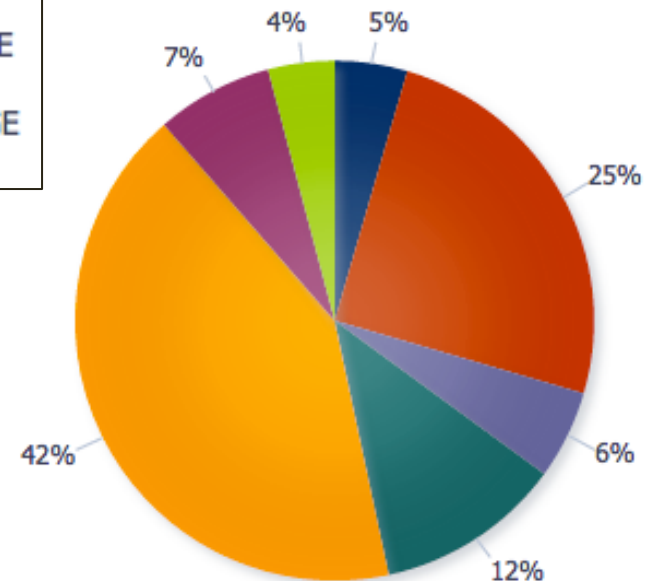
Gas Distribution Pipelines



Hazardous Liquid Pipelines



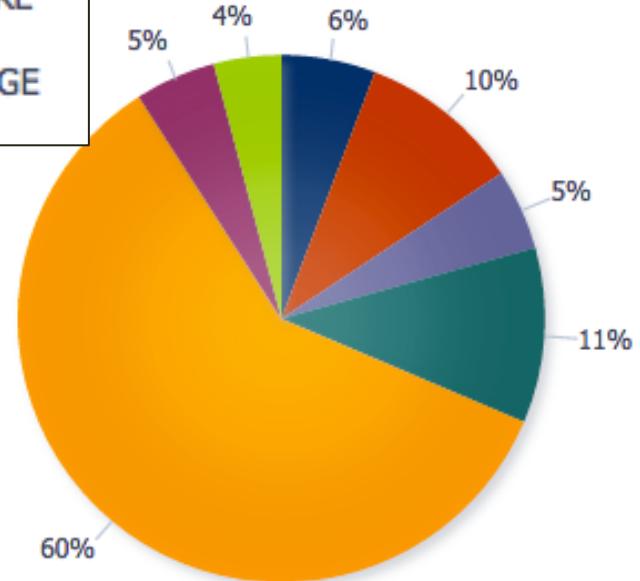
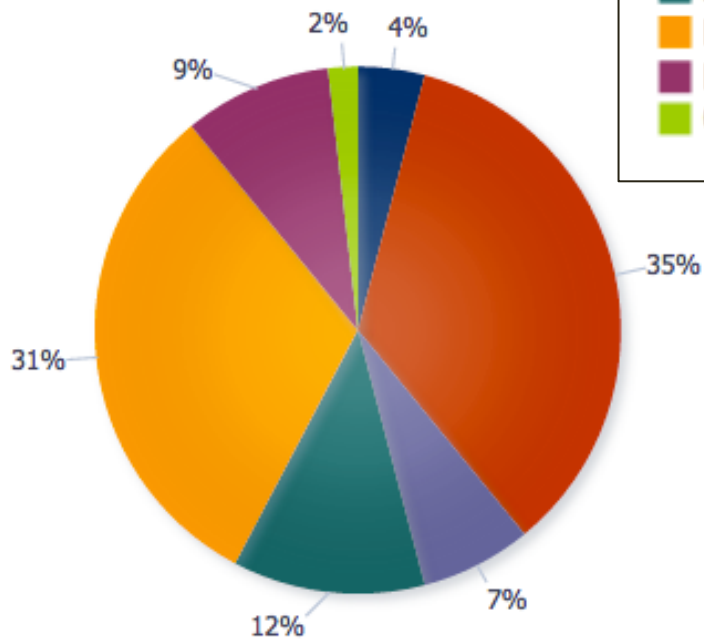
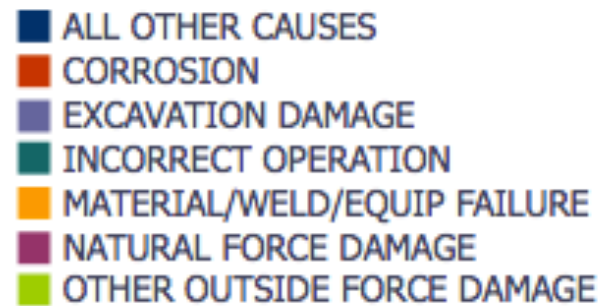
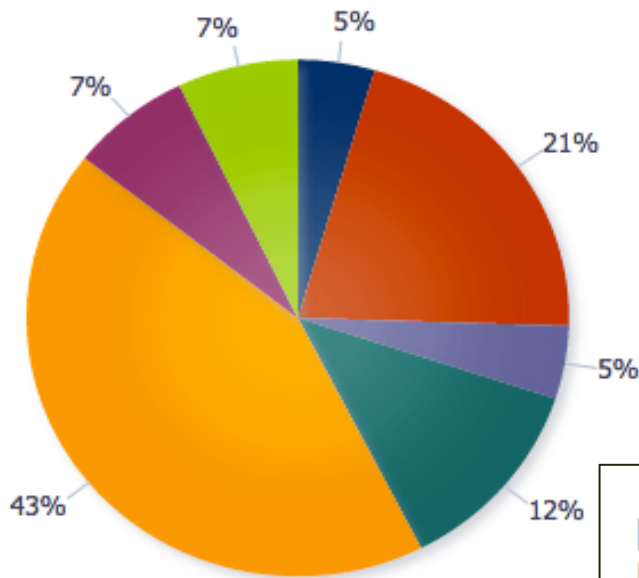
Gas Transmission Pipelines



# Causes of Significant Incidents

## Choices

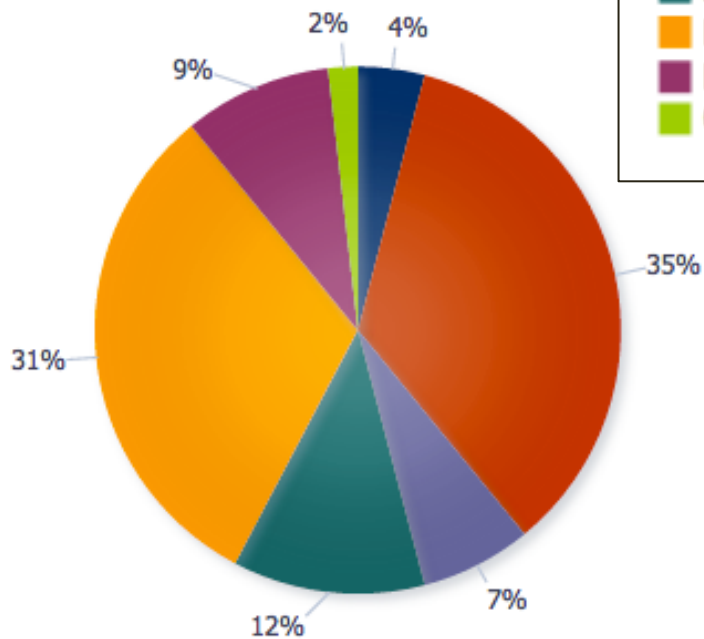
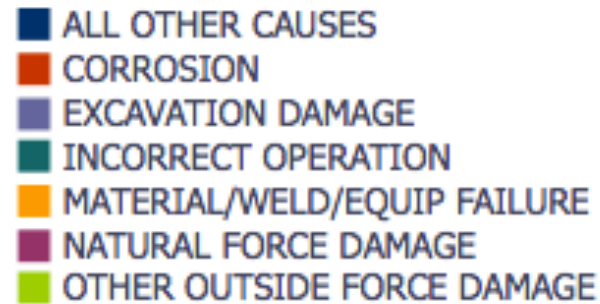
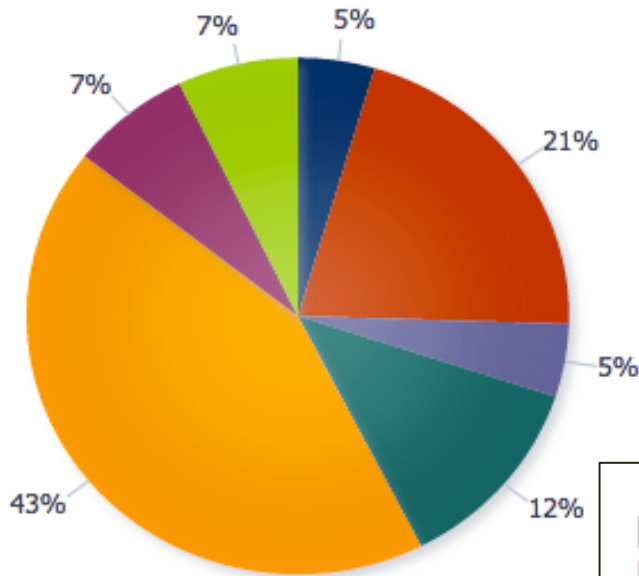
- ✓ Refined Product Pipelines
- ✓ HVL Pipelines\*
- ✓ Crude Oil Pipelines



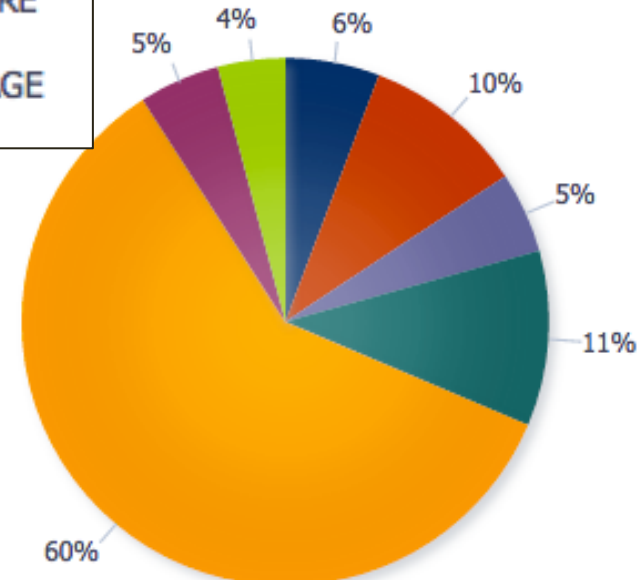
# Causes of Significant Incidents

## Choices

- ✓ Refined Product Pipelines
- ✓ HVL Pipelines
- ✓ Crude Oil Pipelines



## HVL Pipelines

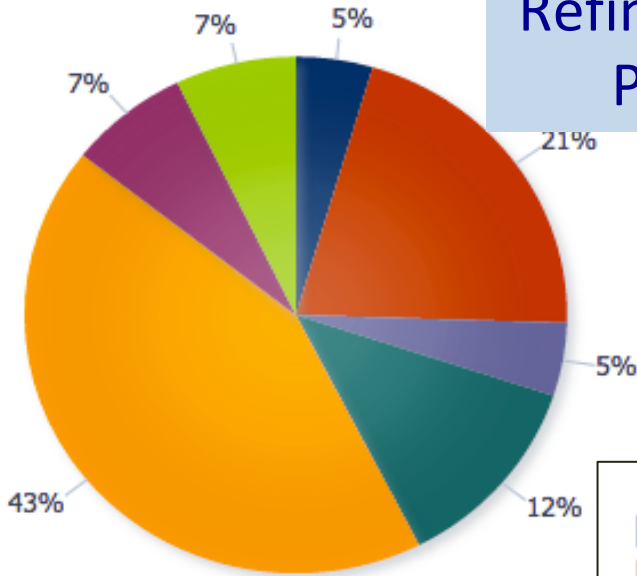


# Causes of Significant Incidents

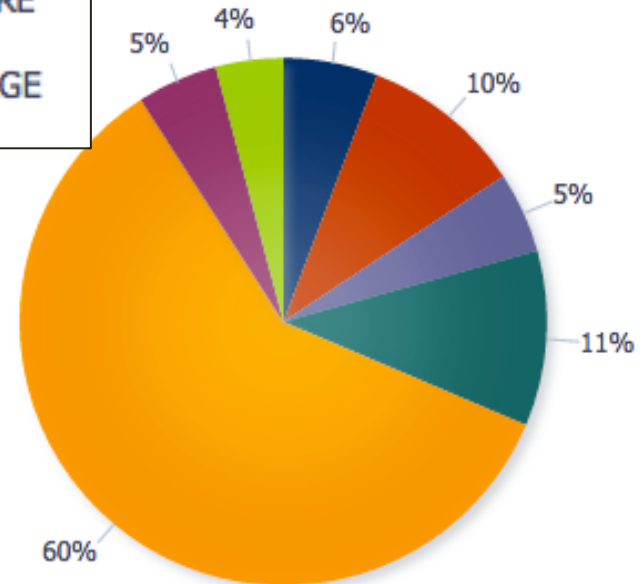
## Choices

- ✓ Refined Product Pipelines
- ✓ HVL Pipelines
- ✓ Crude Oil Pipelines

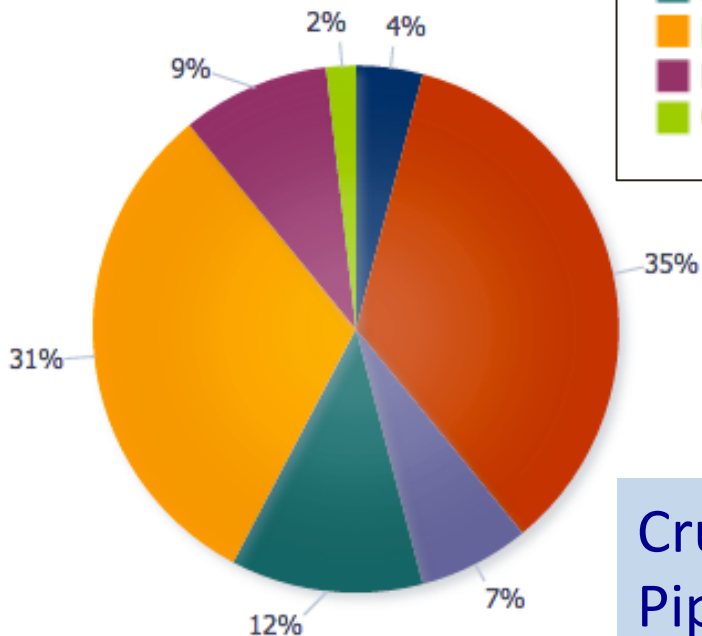
### Refined Product Pipelines



### HVL Pipelines



### Crude Oil Pipelines



- ALL OTHER CAUSES
- CORROSION
- EXCAVATION DAMAGE
- INCORRECT OPERATION
- MATERIAL/WELD/EQUIP FAILURE
- NATURAL FORCE DAMAGE
- OTHER OUTSIDE FORCE DAMAGE