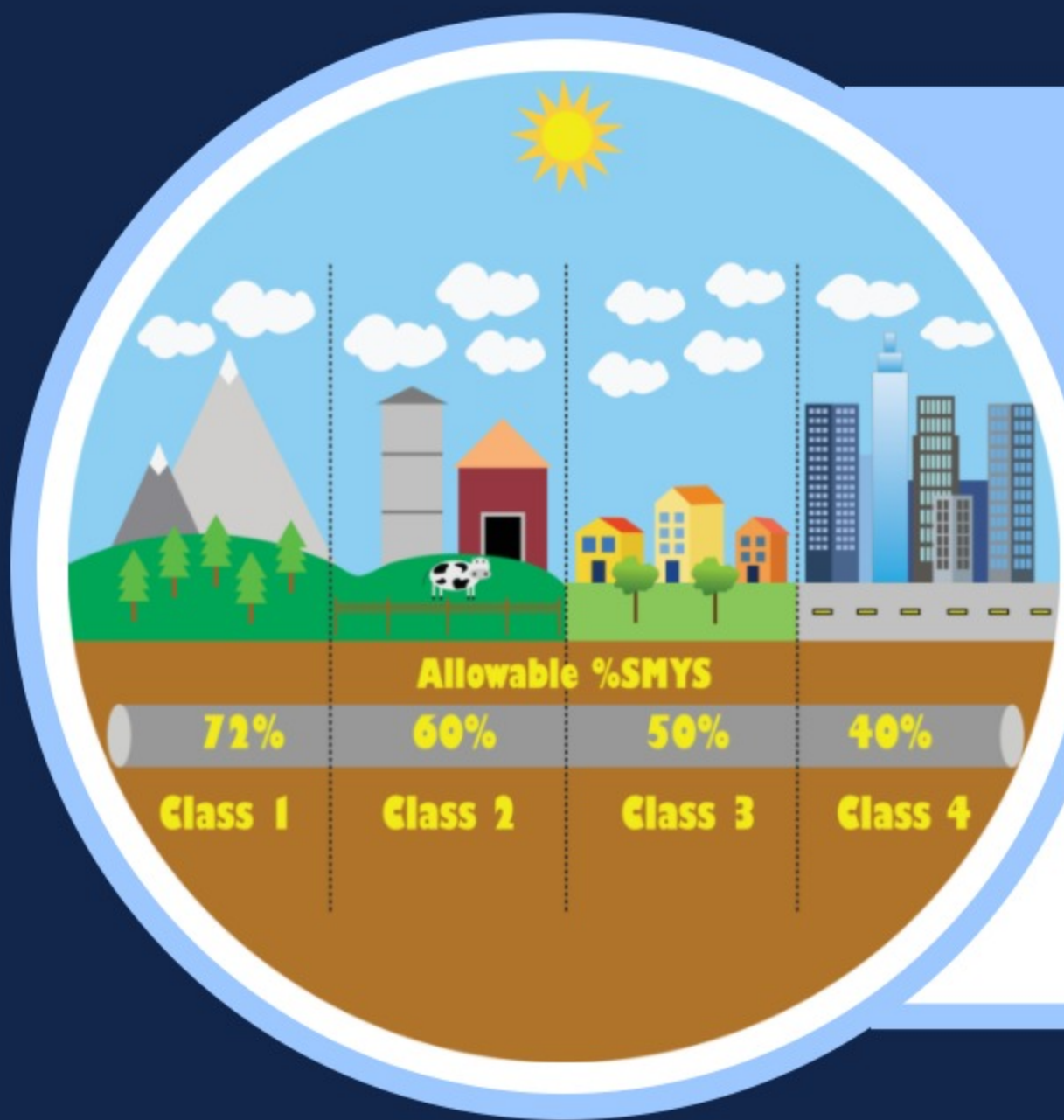


Natural Gas Pipeline Basics

Class Location Basics

A Class location is a corridor along a pipeline whose value is determined by occupied-building density.

The Class Location Value is one of the constraints on the Maximum Allowable Operating Pressure (MAOP).



Do Pipelines Last Forever?

Nothing lasts forever, but properly maintained and operated pipelines can safely remain in operation for a very long time.

Common Threats to the life of a pipeline:

- Corrosion
- 3rd Party Damage
- Construction Defects



Maximum Allowable Operating Pressure

Pipe Strength, or SMYS, indicates the strength of the steel used in the creation of the pipe.

- Maximum Allowable Pressure Constraints:
- Pipe Strength, Wall Thickness and Diameter
 - Class Location
 - Pipe Manufacturing Method



Regulations

- Governed by US Department of Transportation (founded in 1967)
- Regulated by PHMSA (founded in 2004)
- 49 Code of Federal Regulations, Part 192 specifies design, maintenance, operations and integrity assessment requirements
- Some states may have stricter regulations

