





#### **High Blockage Piston Effect**

**Auto Calibration** 

**Model in a Database** 

**Web Portal** 

**Seamless Software Integration** 



#### **High Blockage Piston Effect**

Understanding the difference



Train, skip and ore passes

behave differently to declines and
adits, pending the type of traffic

#### **Key differences:**

- Vehicles consume majority of the void restricting airflow
- A vehicle's acceleration and deceleration has a variable impact on airflow, heat and gas



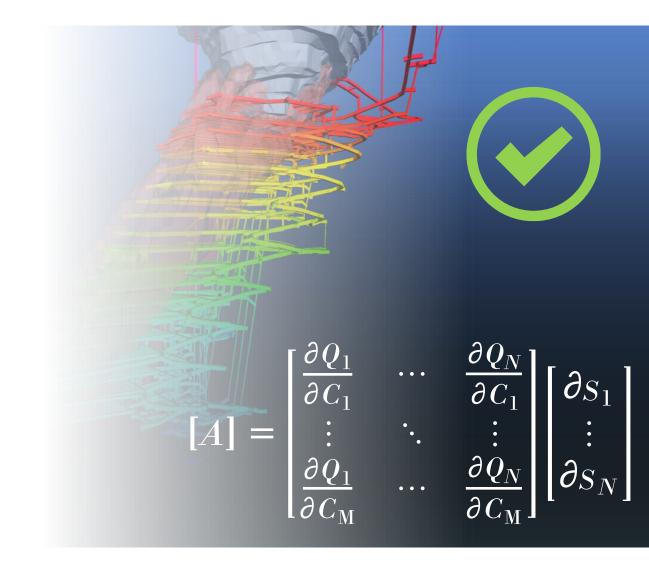


An accurate Ventsim<sup>™</sup> model will greatly enhance future savings in millions of \$\$\$ across CAPEX and OPEX

#### **Key Steps:**

- User conducts a PQ survey
- Ventsim<sup>TM</sup> model is validated against PQ survey, as PQ survey is inputted into Ventsim<sup>TM</sup>
- Auto calibration converges survey data with simulated

...more accurate simulations



#### **Model in a Database**

A collaborative approach



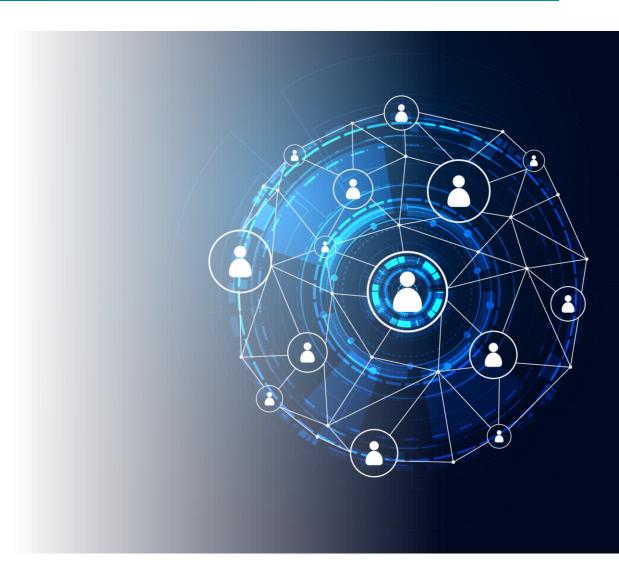
### Mines will have a single place to store all Ventsim<sup>TM</sup> models

#### **Key benefits:**

- Easy to find the latest model
- Multiple people can edit simultaneously
- Changes tracked and a history recorded
- Changes can be undone
- Earlier revisions can be recalled

#### **Example:**

- User 1 modifies section Alpha on one computer whilst User 2 works on section Beta on another computer.
- Whenever a user finishes their session, changes are merged to the master.





### Measurements straight from underground to your Ventsim™ models

#### **Key benefits:**

- No need to type in data from underground when back on surface
- Get the data straight into Ventsim to compare and calibrate
- Color your model to highlight differences

#### What will be coming up:

- More smarts including flow balance
- Ipad/Android version



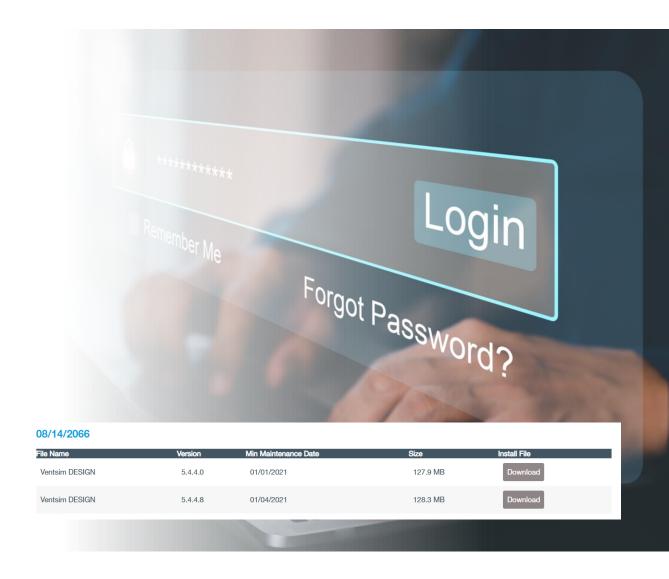


# A common place for all support functions of using Ventsim<sup>TM</sup>

#### **Key benefits:**

- Security: it will be gated with easy access via your Ventsim<sup>TM</sup> license details
- Live status: release, activate and see who's currently using
- Latest version
- Dedicated support

...and more



#### **Seamless Software Integration**

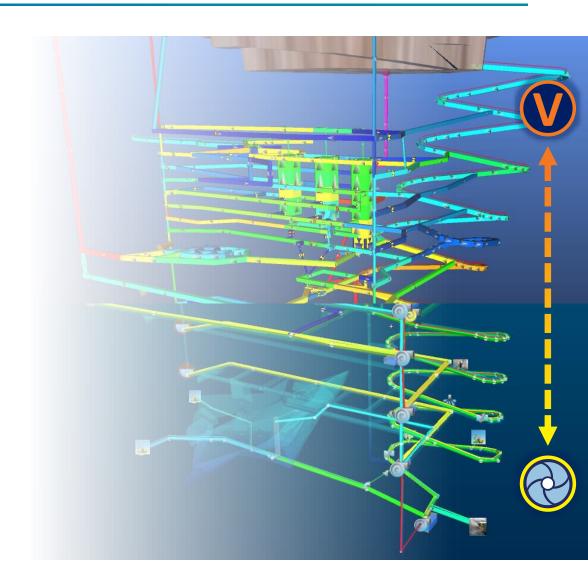
Merging water and air systems



### A more accurate Ventsim<sup>TM</sup> model through Pumpsim<sup>TM</sup> integration

#### **Key Influence Considerations:**

- Open channels
- Heat around pipes and network
- Cooling system affects





## Thank you

**Revolving Around You™**