



# 2018 Survey Results

SPEE 2018 Petroleum Evaluation Software Symposium

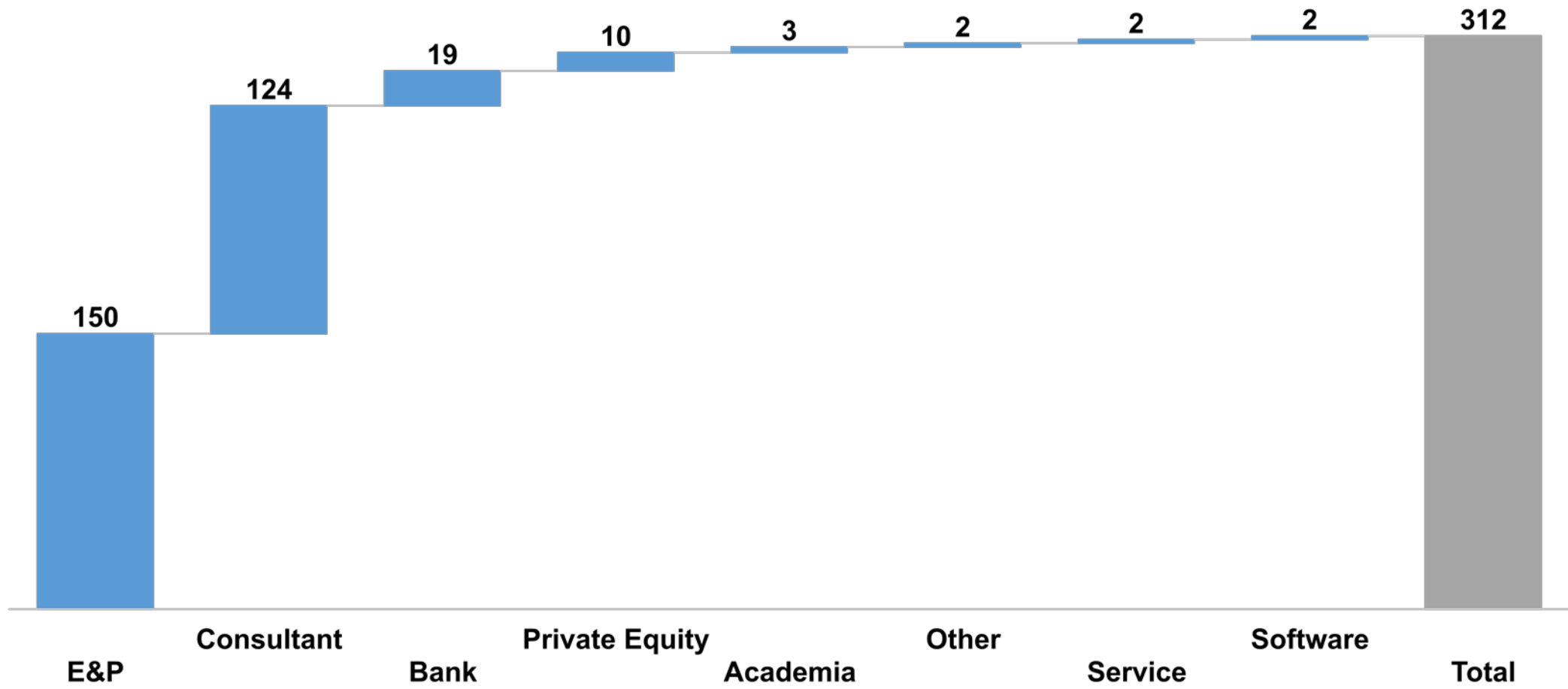
For questions, please contact Dilhan Ilk – [dilk@demac.com](mailto:dilk@demac.com)

# Presentation Outline

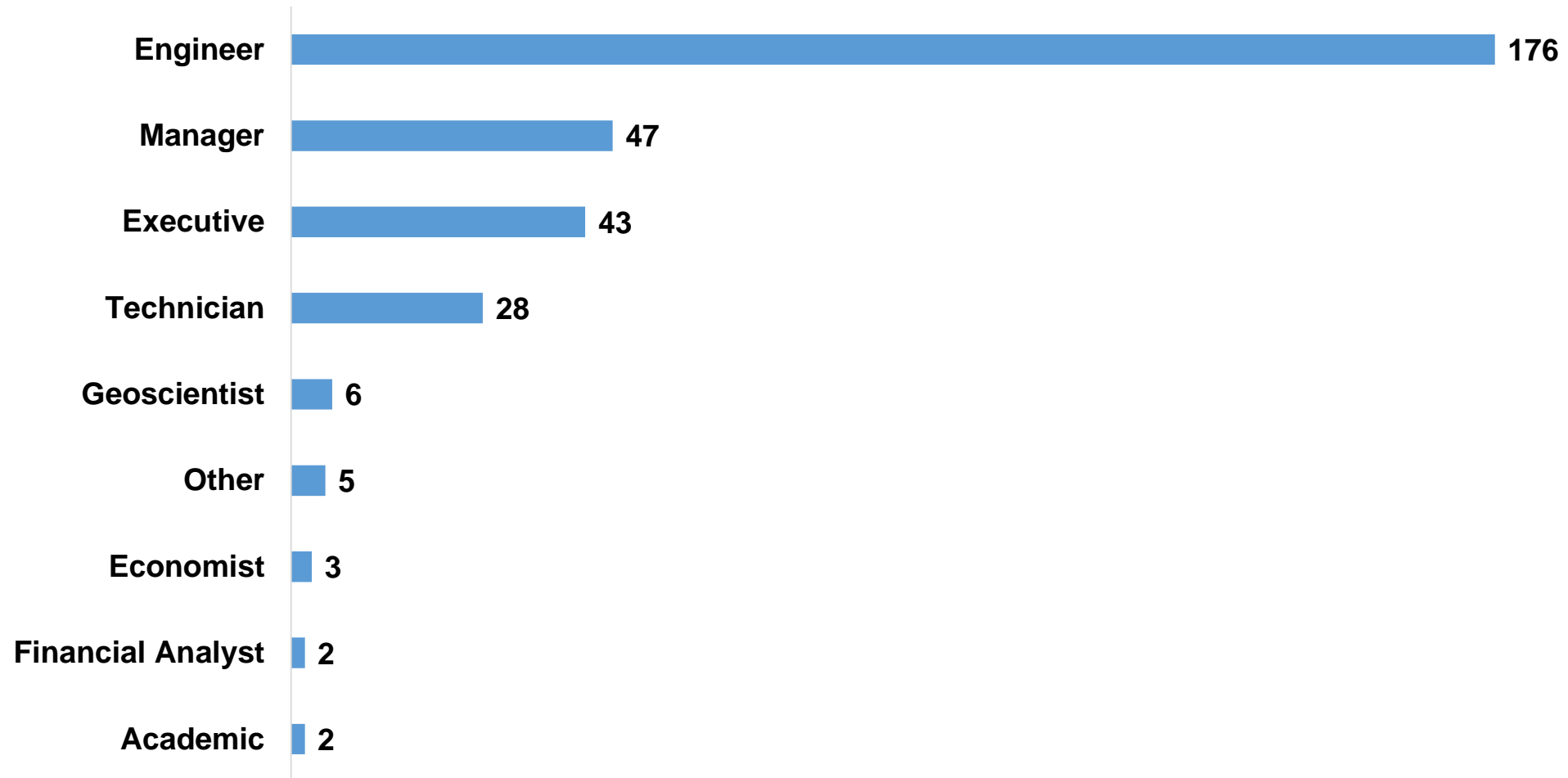
- Demographics
- Software Choice
- Software General
- Software Usage
- Software Specifics
- Software Improvements
- Conclusions

# Demographics

# What type of company do you work for?

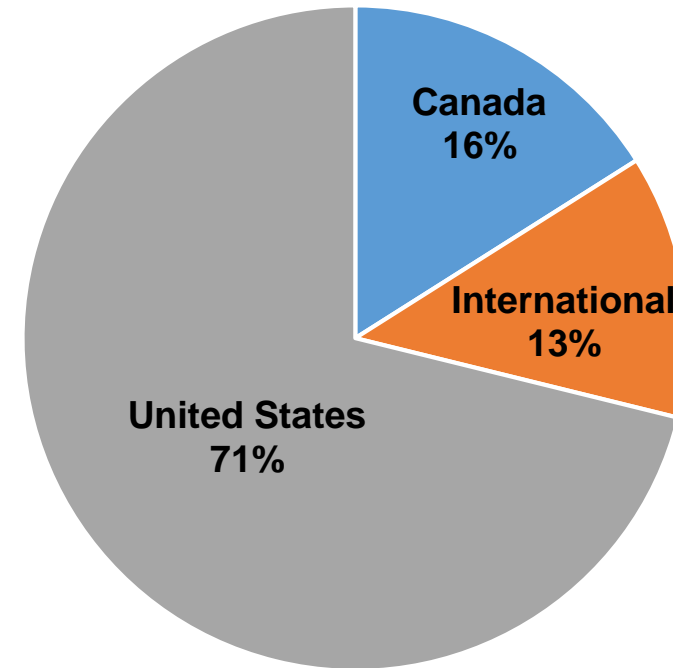


# Which of these roles best describe your job responsibilities?



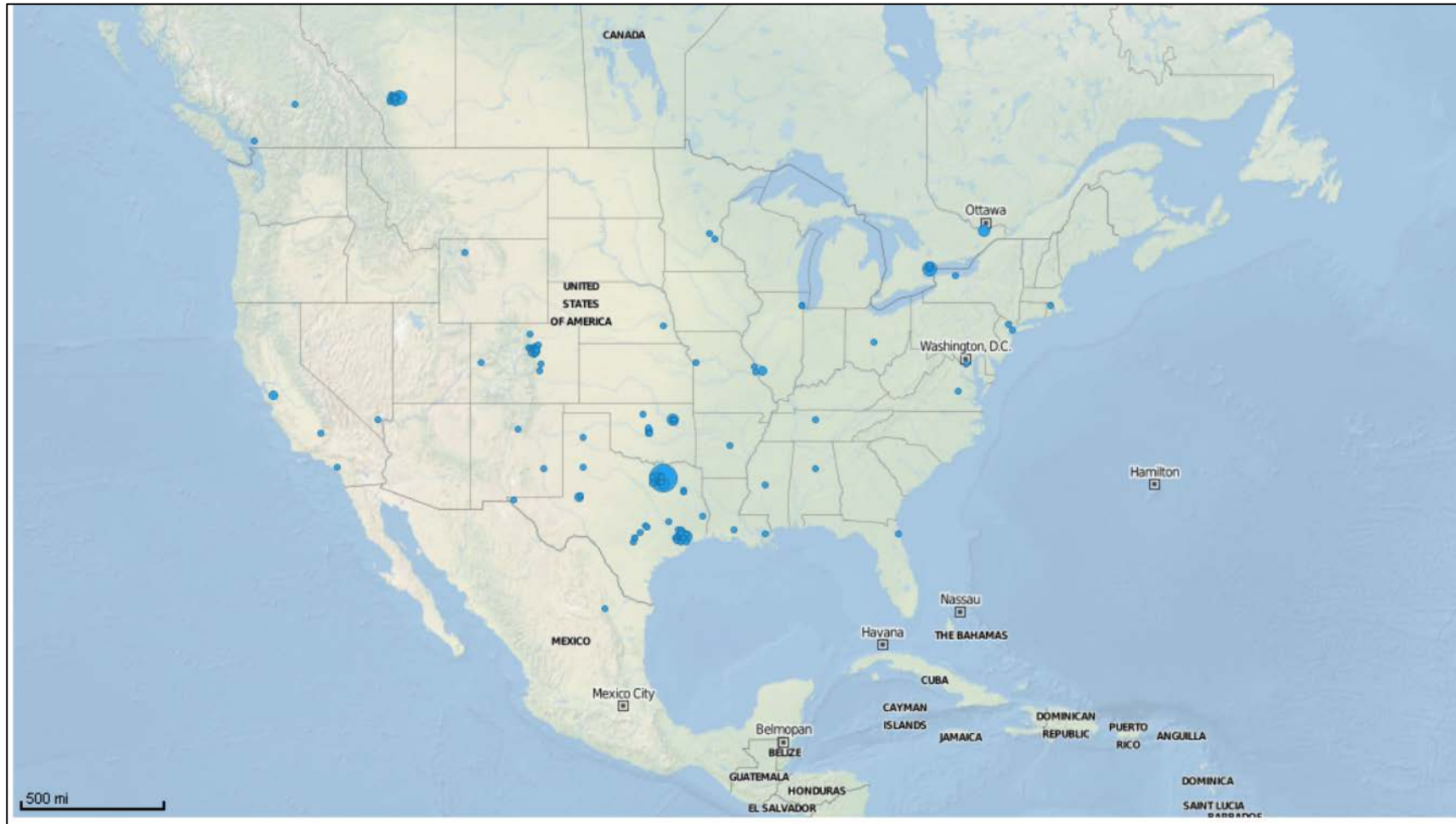
# Survey Responses

Where are most of the projects that you work located?



48 percent single software user  
52 percent multi-software user  
(out of 311 responses)

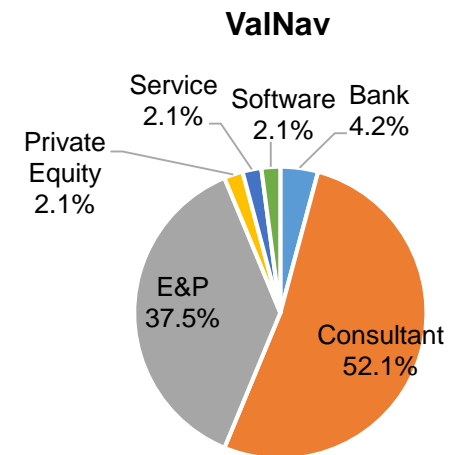
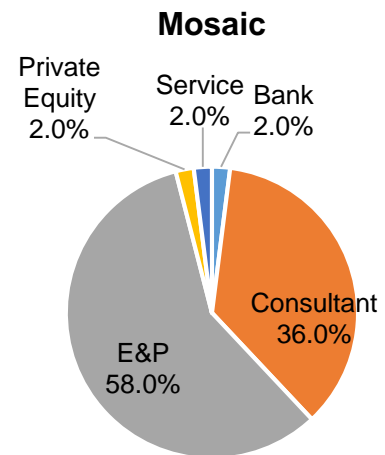
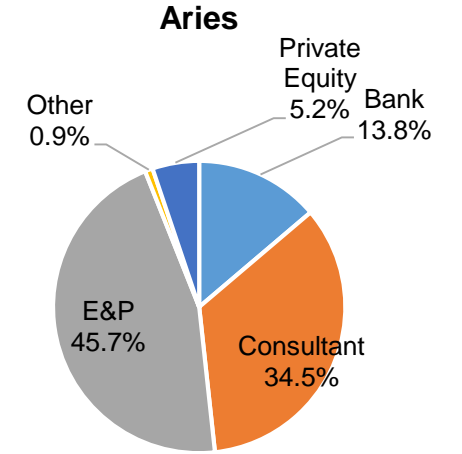
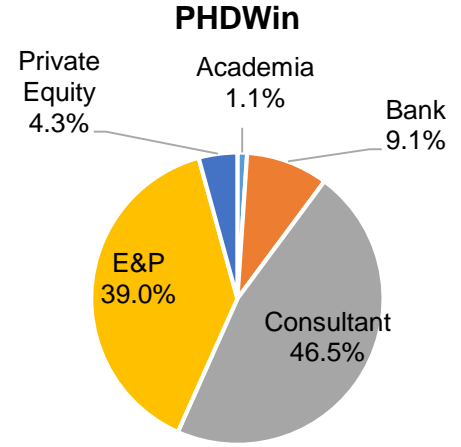
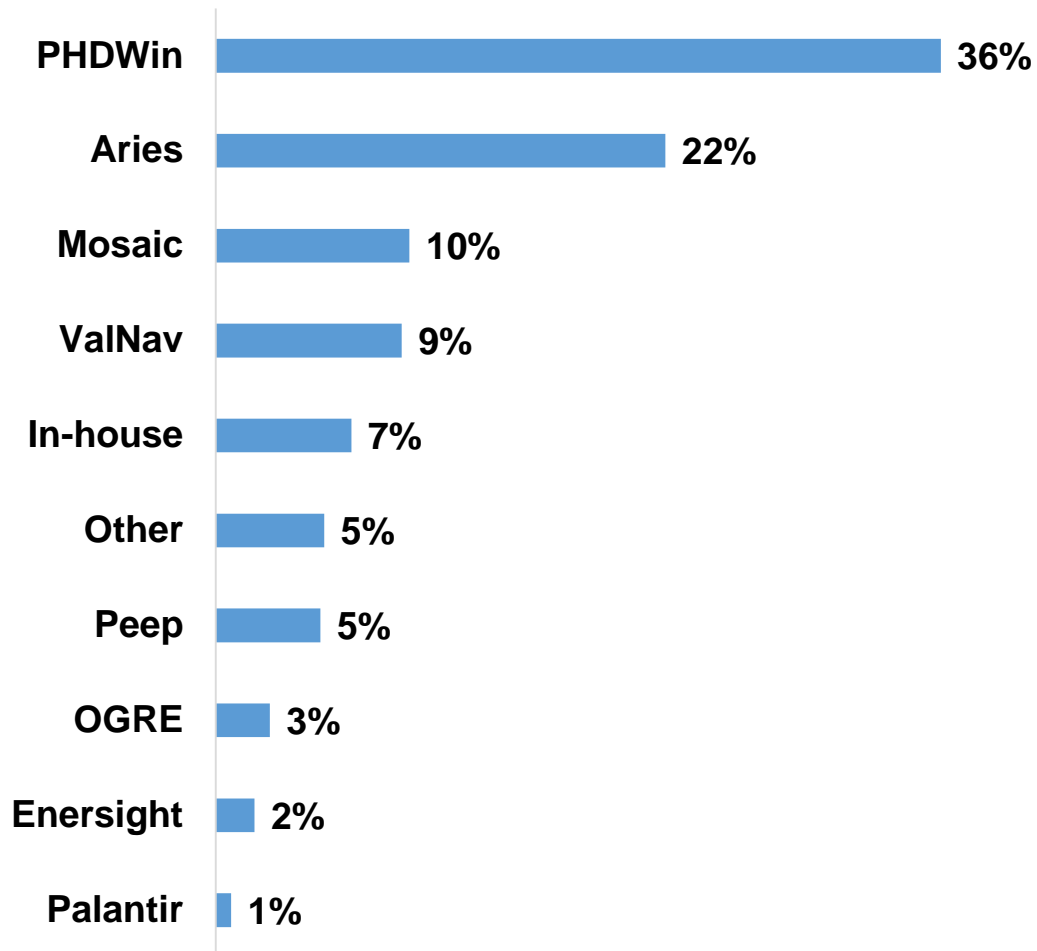
# Survey Responses (North America)



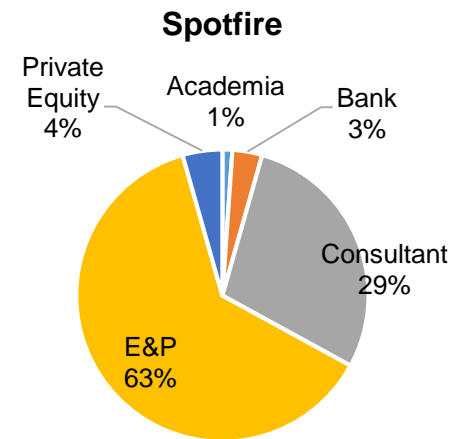
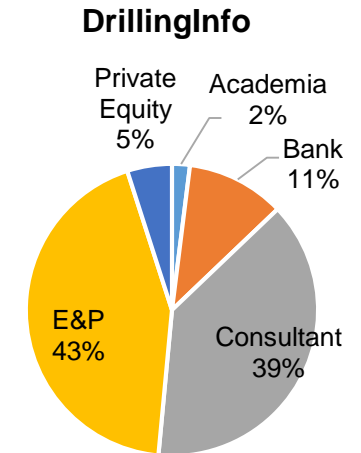
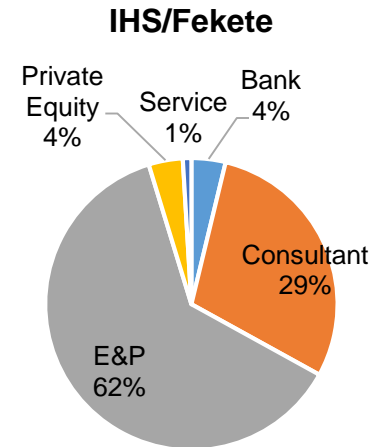
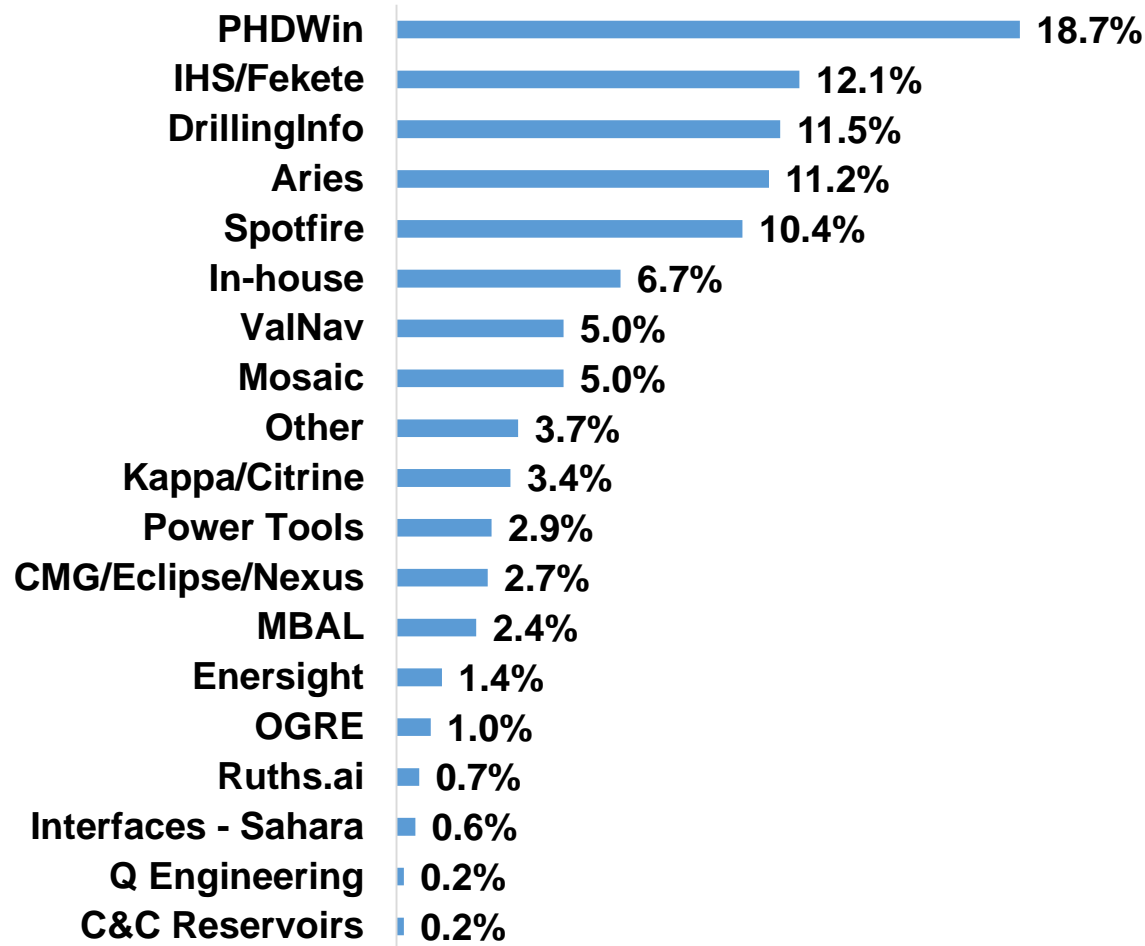
# Software Choice



# Which economic/reserves management software do you regularly use?

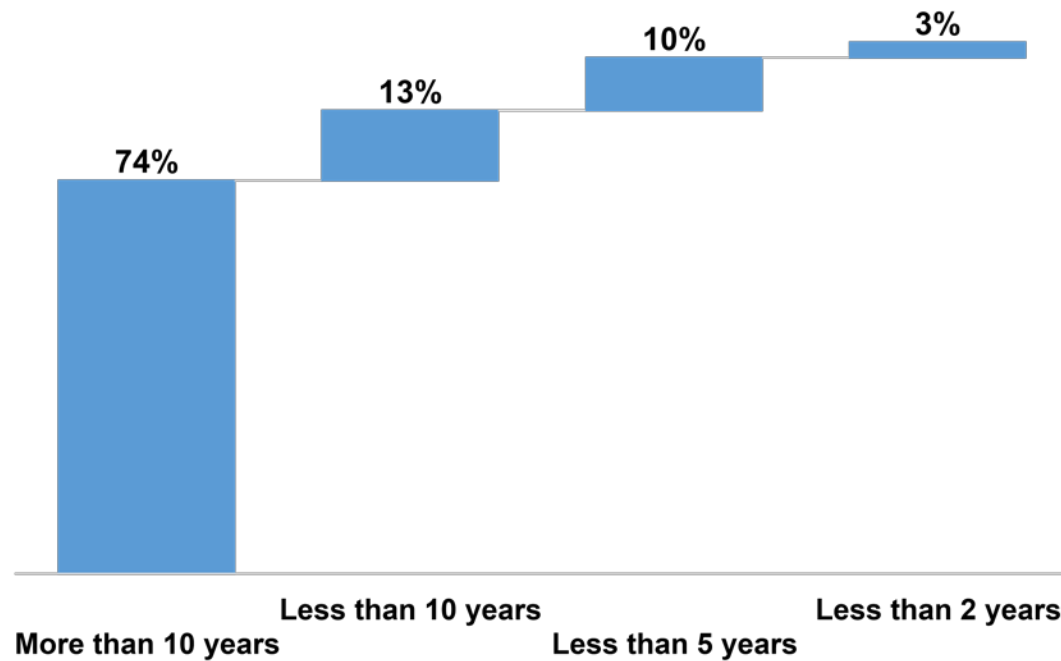


# Which technical analysis software do you regularly use?

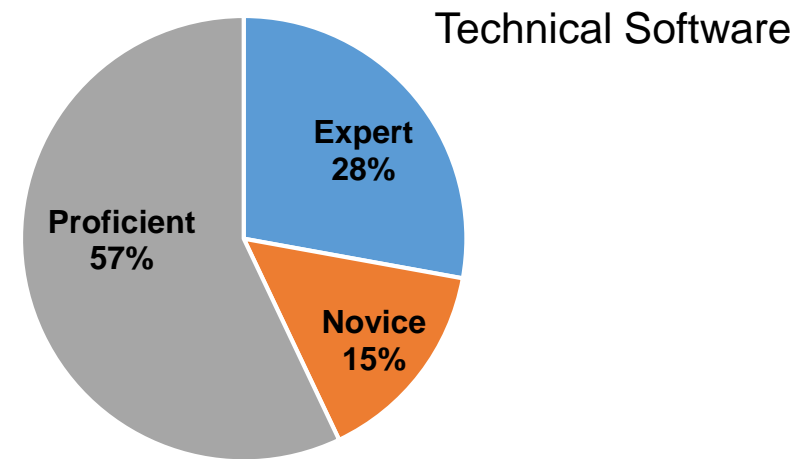
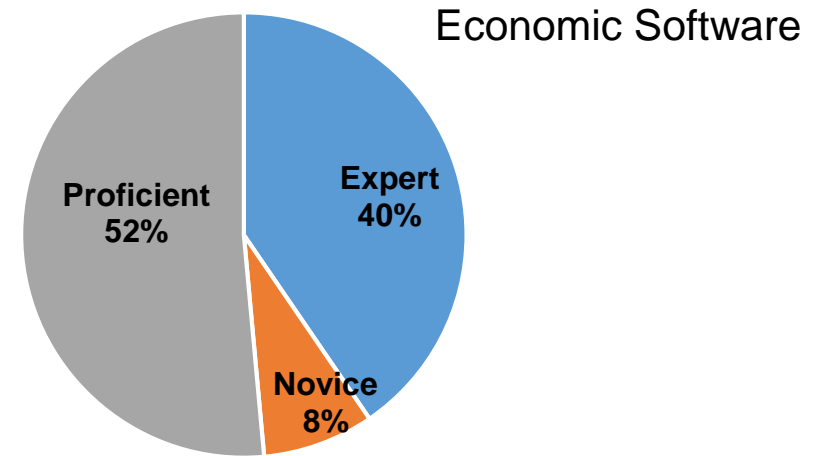


# Software General

# How long have you been using economic software?

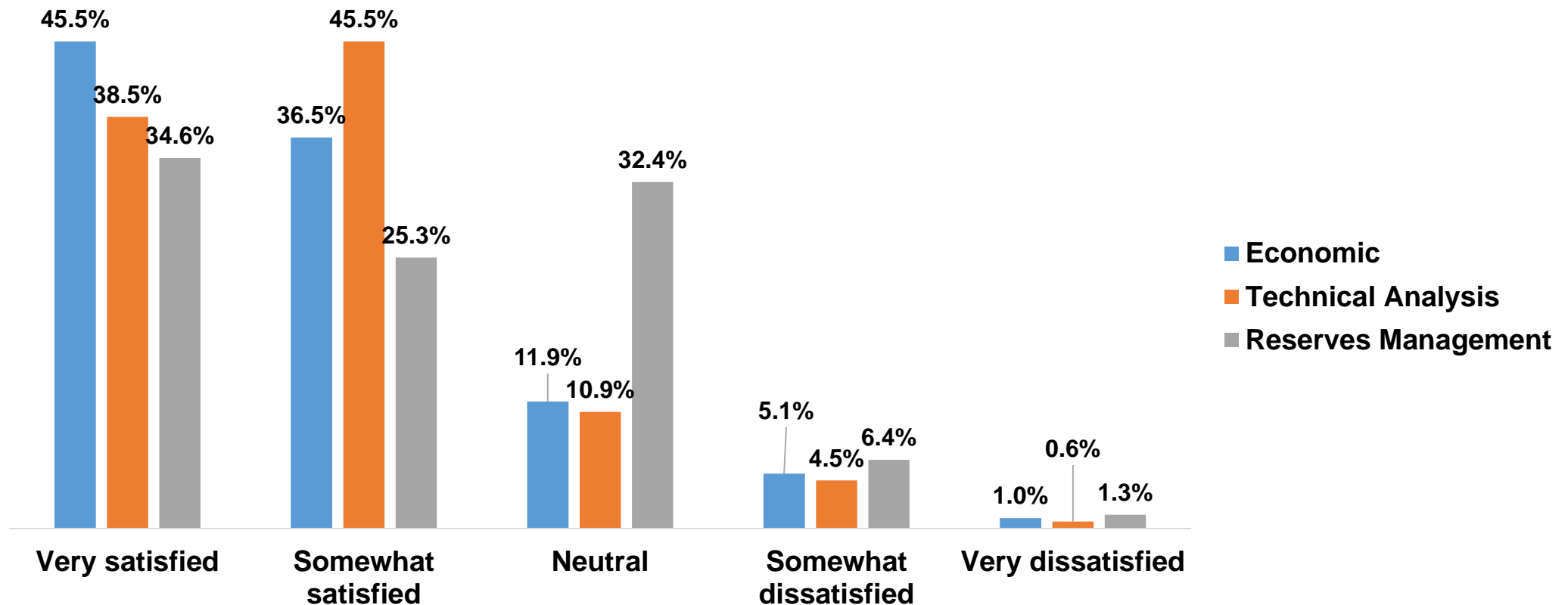


# How do you consider yourself for your software?



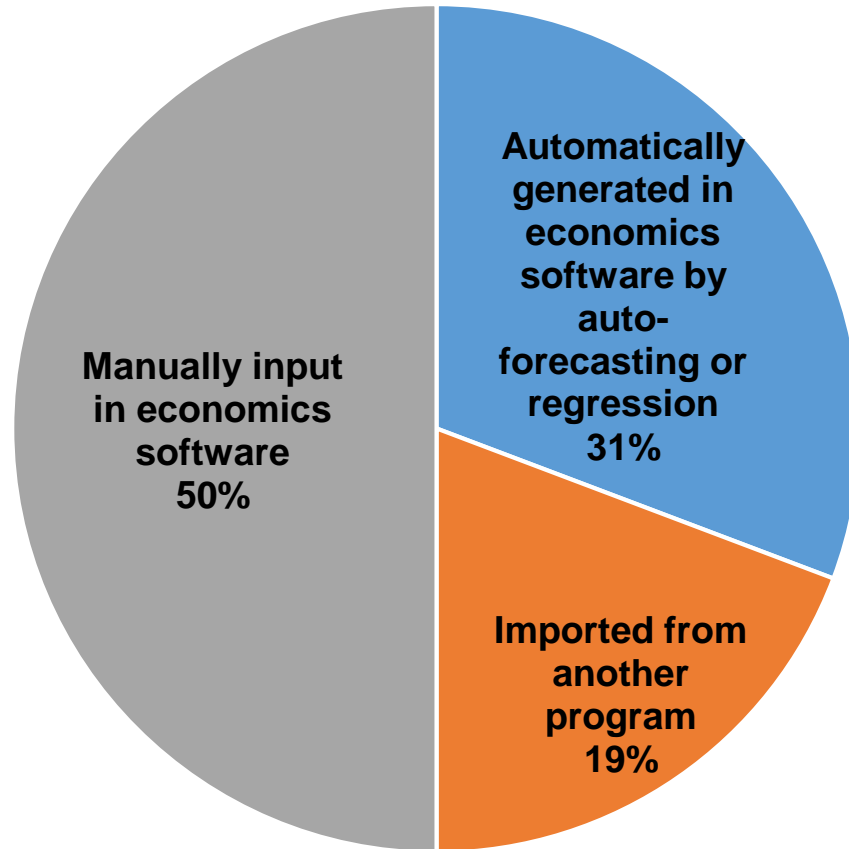
# How satisfied are you with your software?

## Economic/Technical Analysis/Reserves Management

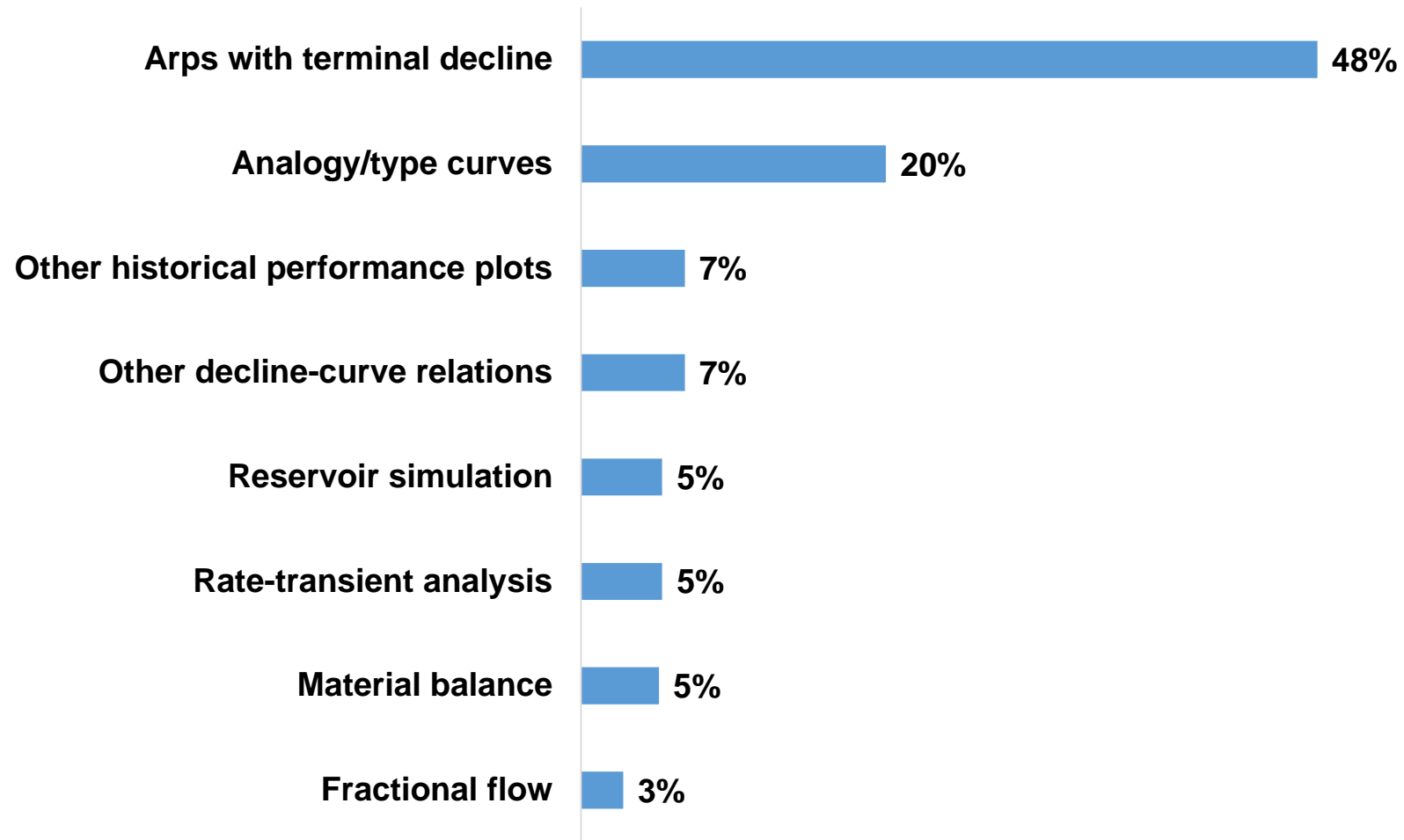


# Software Usage

# Where do you generate technical forecasts?

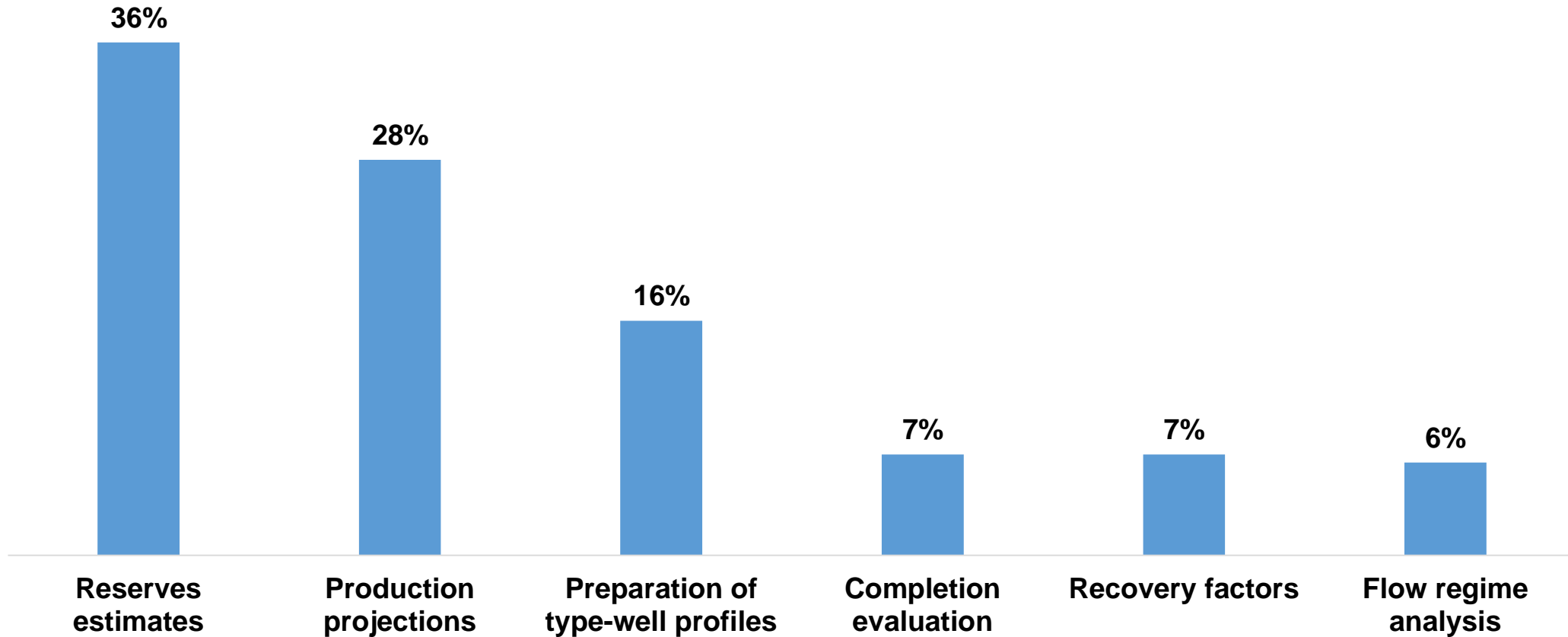


# What methods for production forecasting do you generally use?

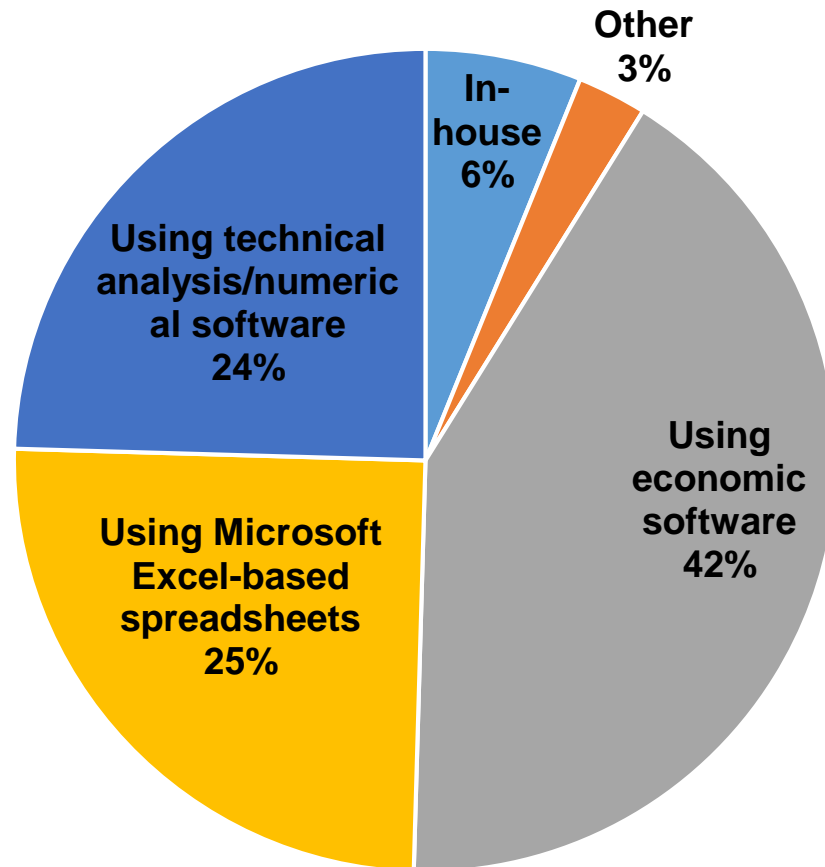




# For what purpose do you use technical analysis/numerical software?

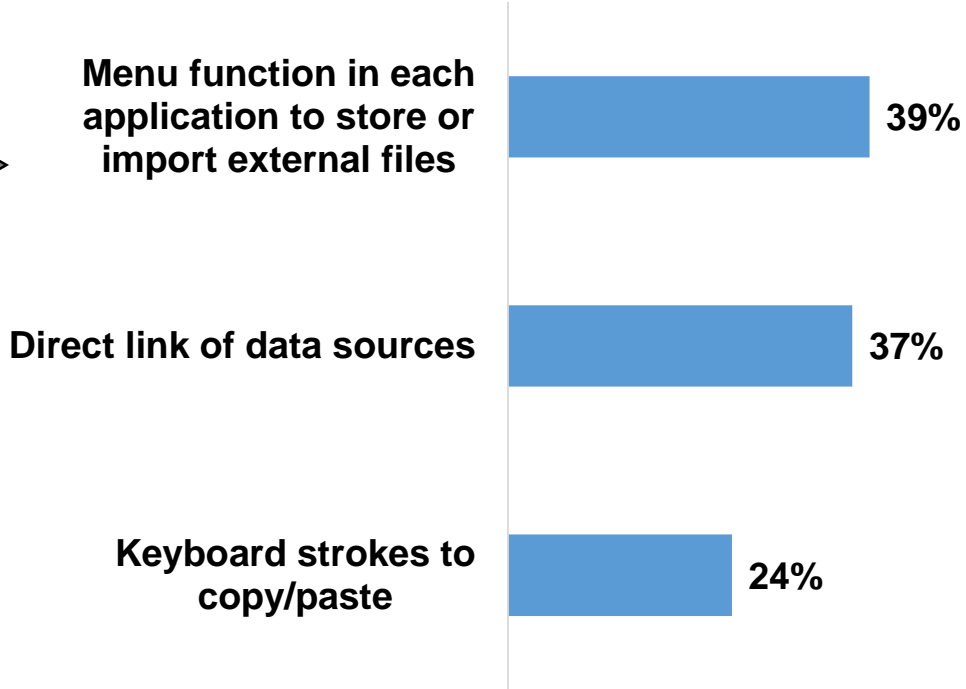
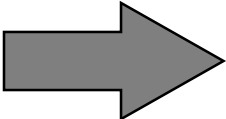
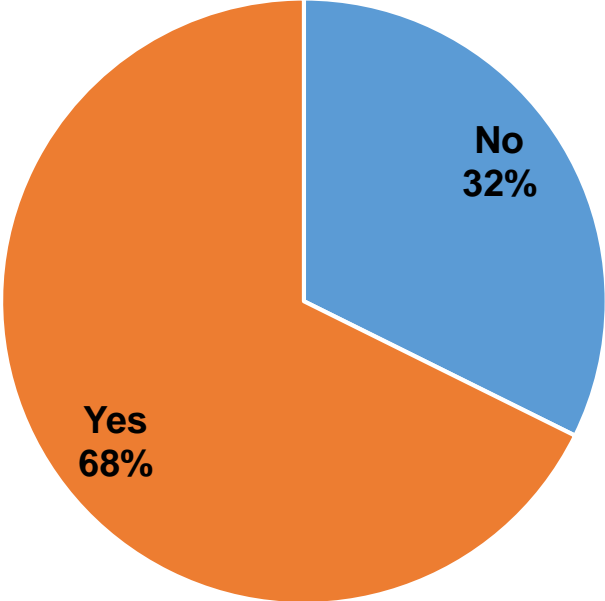


# Where do you generally prepare type-well profiles?

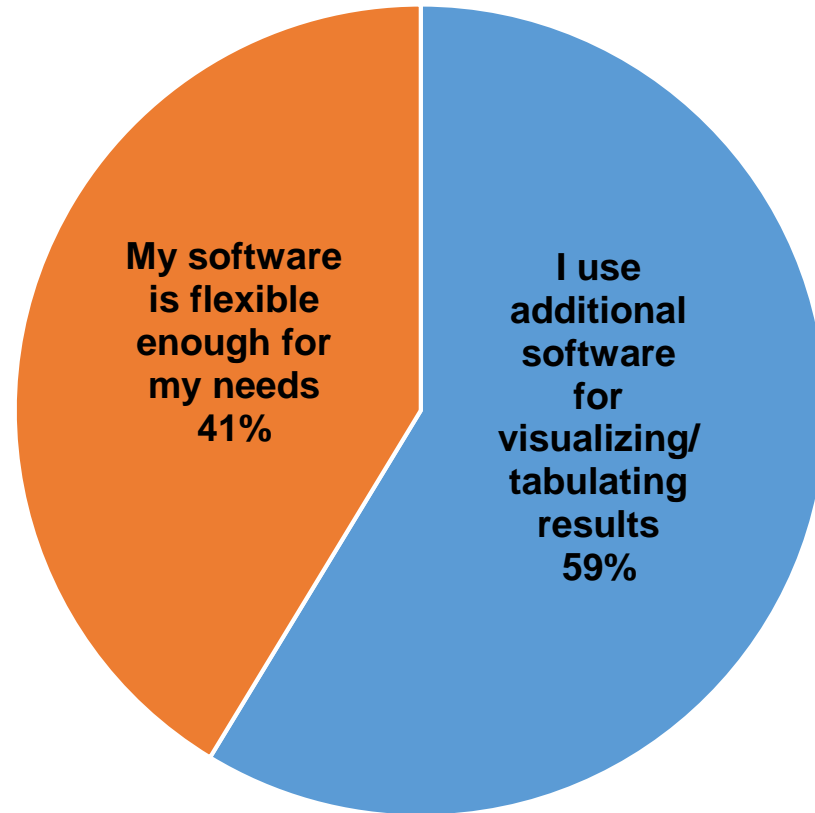


# Software Specifics

# Do the results from your technical software are exported easily to your economics software?

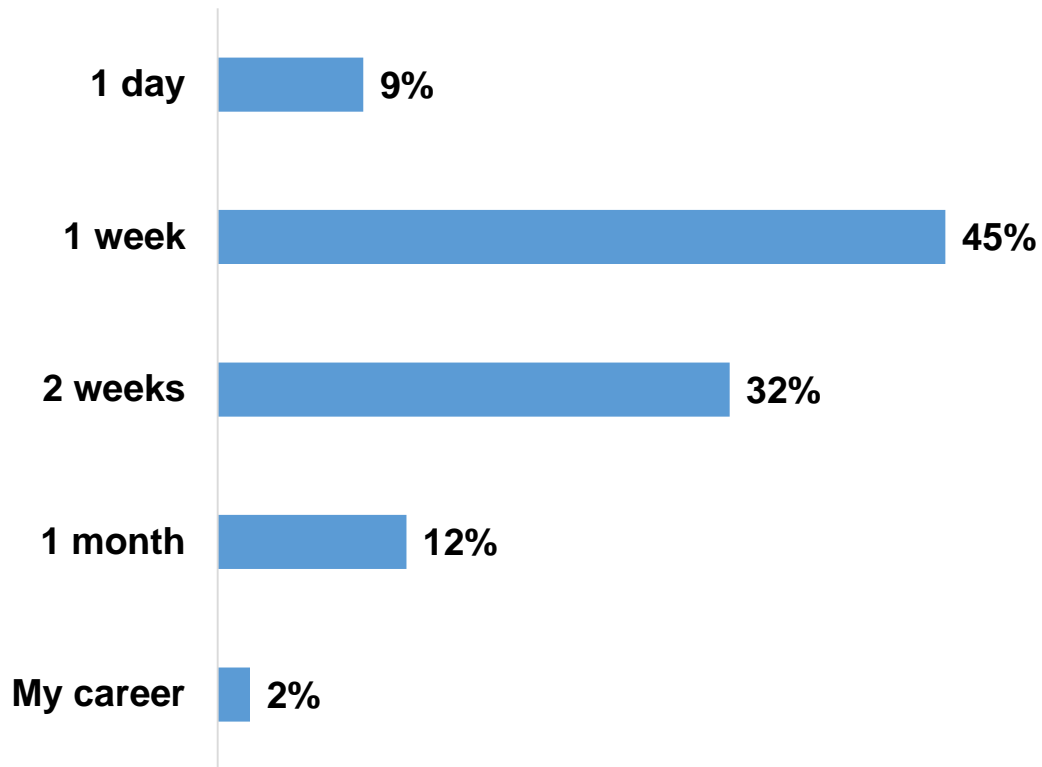


# Is your economic software sufficiently capable of outputting and illustrating computed results?

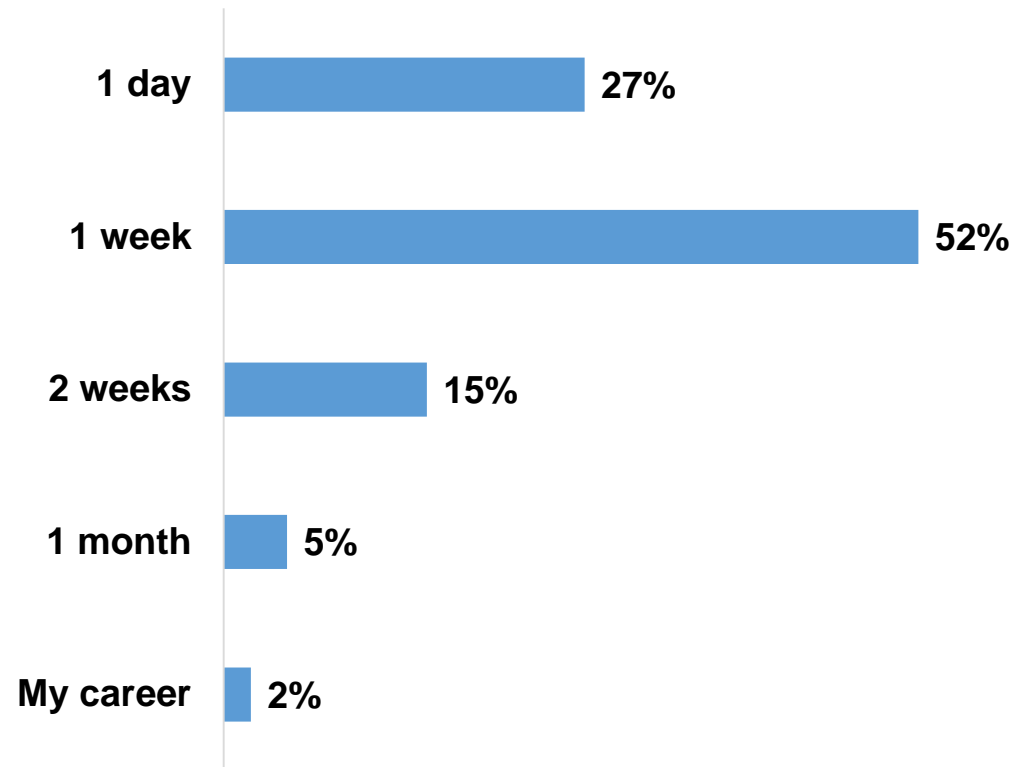


# How long does it take you to forecast?

Forecast and run (with economics)  
approximately 1,000 new PDP wells

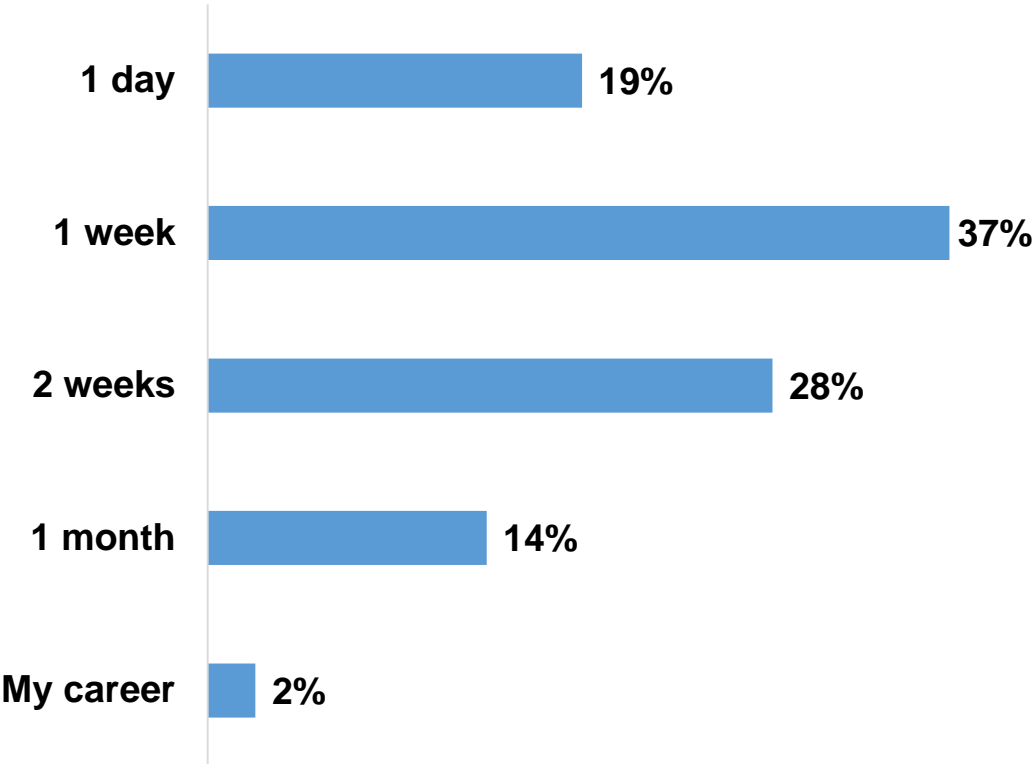


Update forecasts and run (with economics)  
approximately 1,000 PDP wells

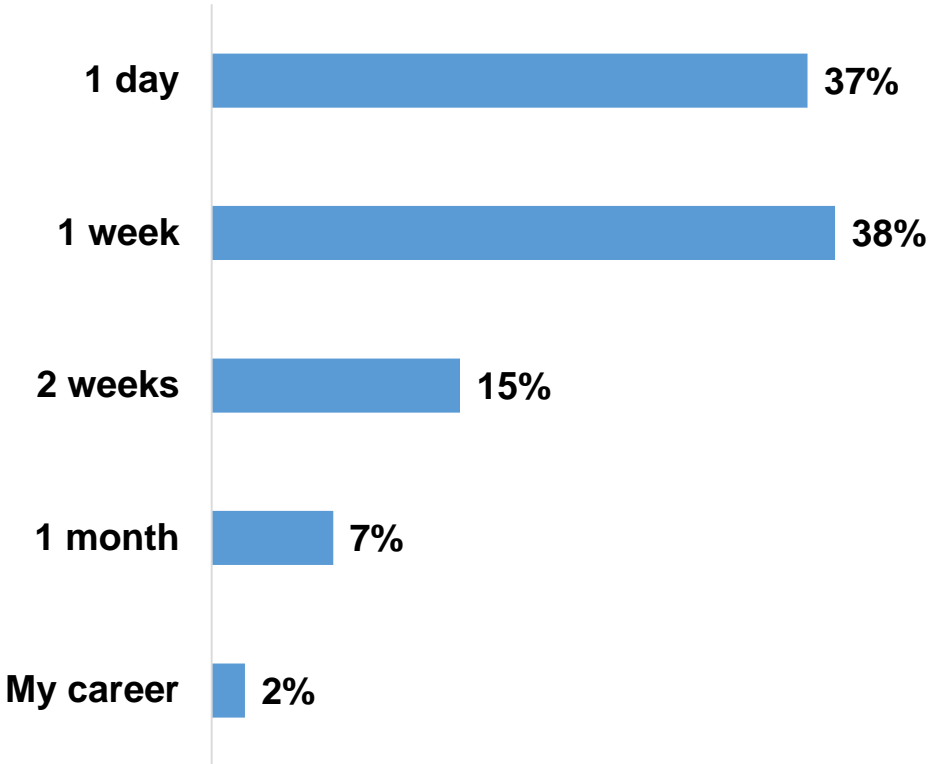


# How long does it take you to forecast?

Forecast and run (with economics)  
approximately 1,000 new PUD wells

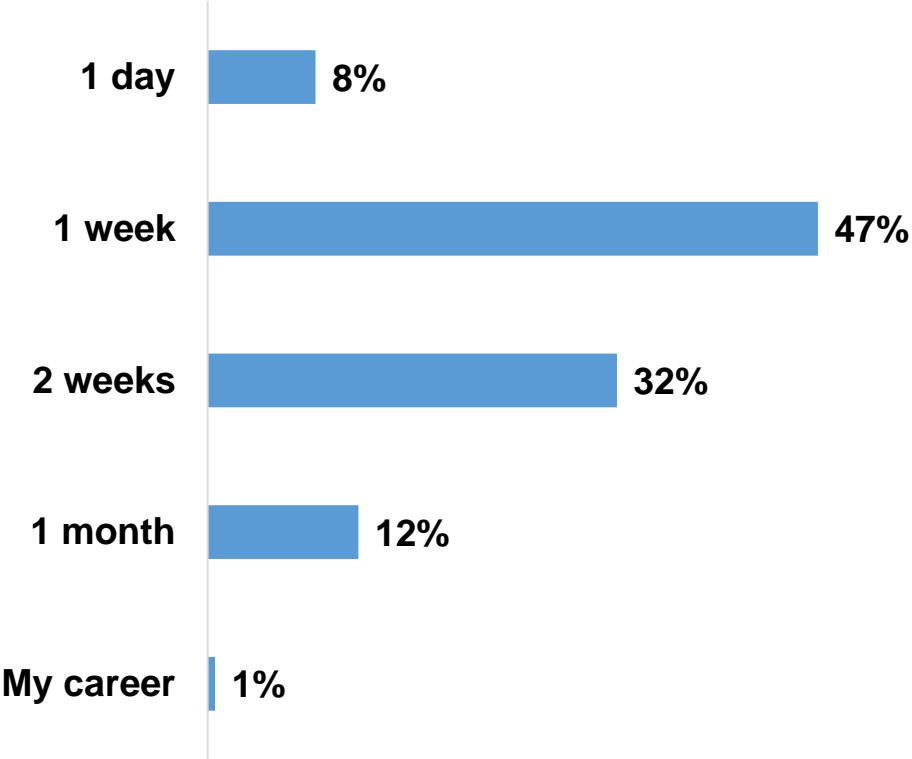


Update forecasts and run (with economics)  
approximately 1,000 PUD wells

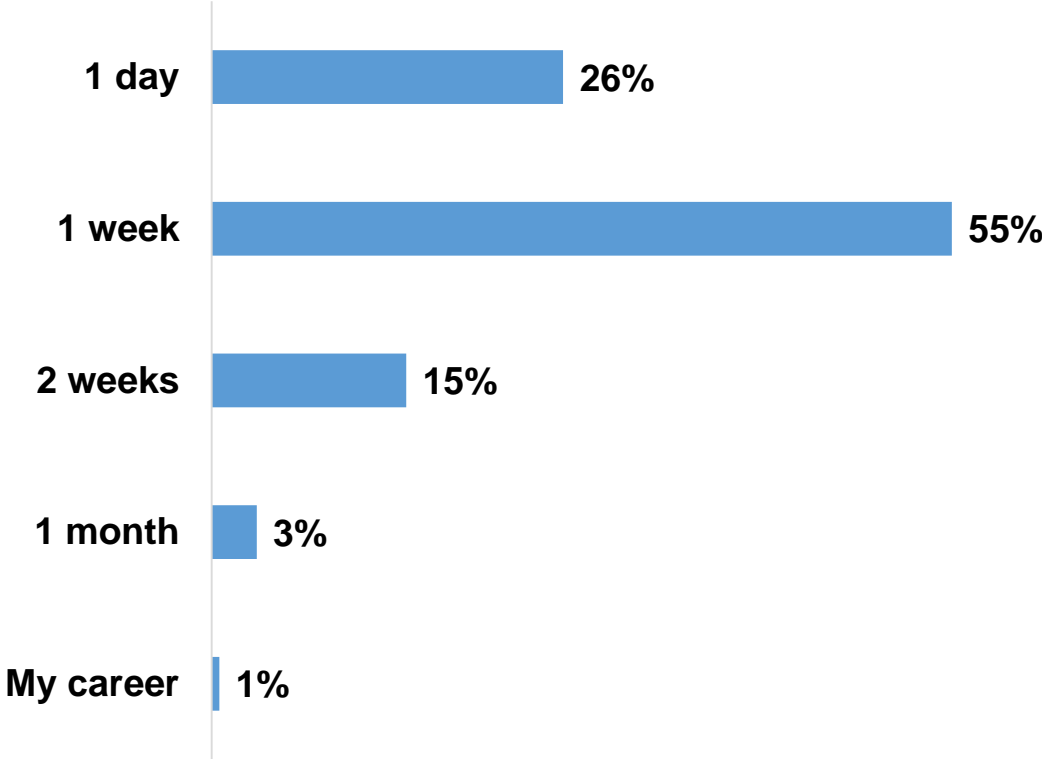


# How long does it take you to forecast? PHDWin

Forecast and run (with economics)  
approximately 1,000 new PDP wells



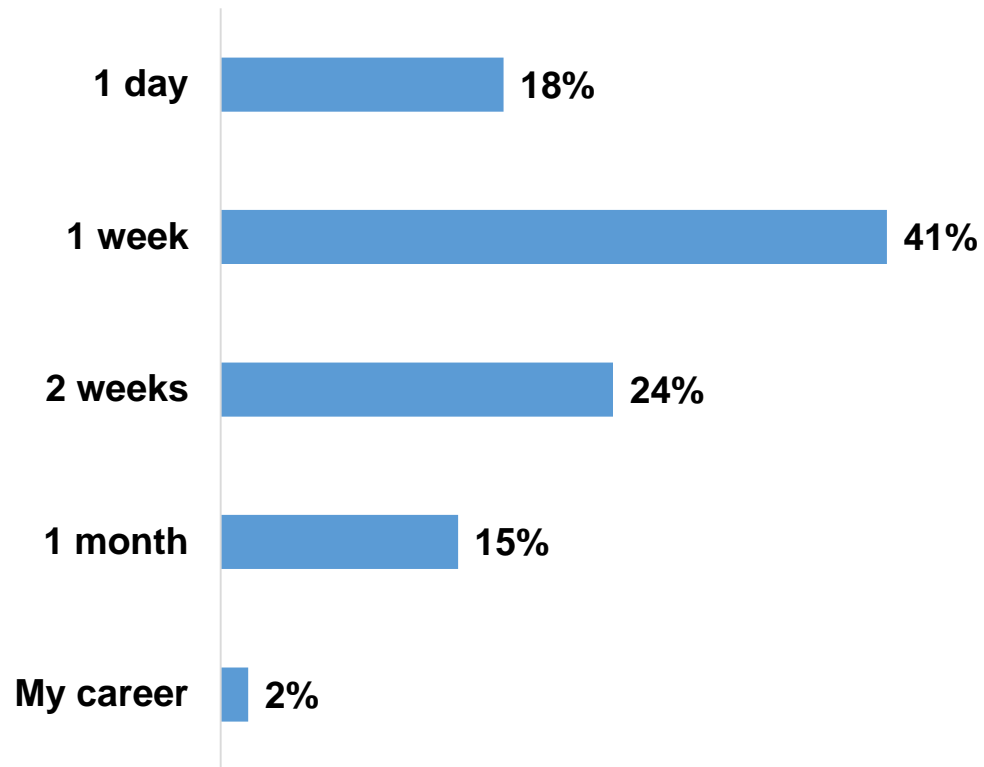
Update forecasts and run (with economics)  
approximately 1,000 PDP wells



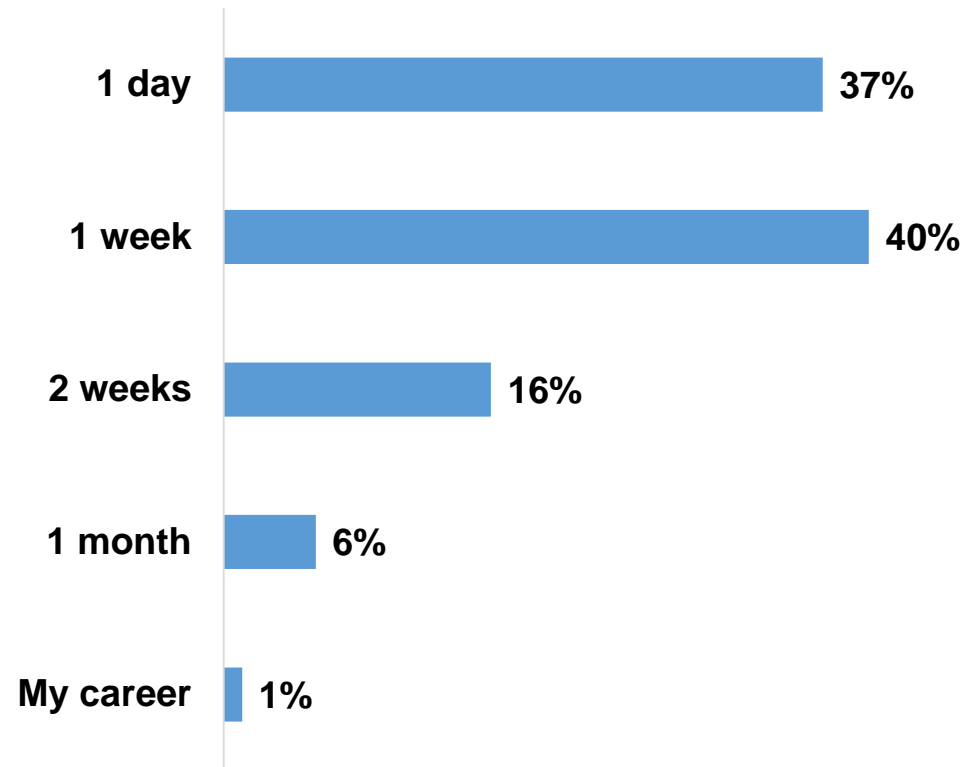


# How long does it take you to forecast? PHDWin

Forecast and run (with economics)  
approximately 1,000 new PUD wells

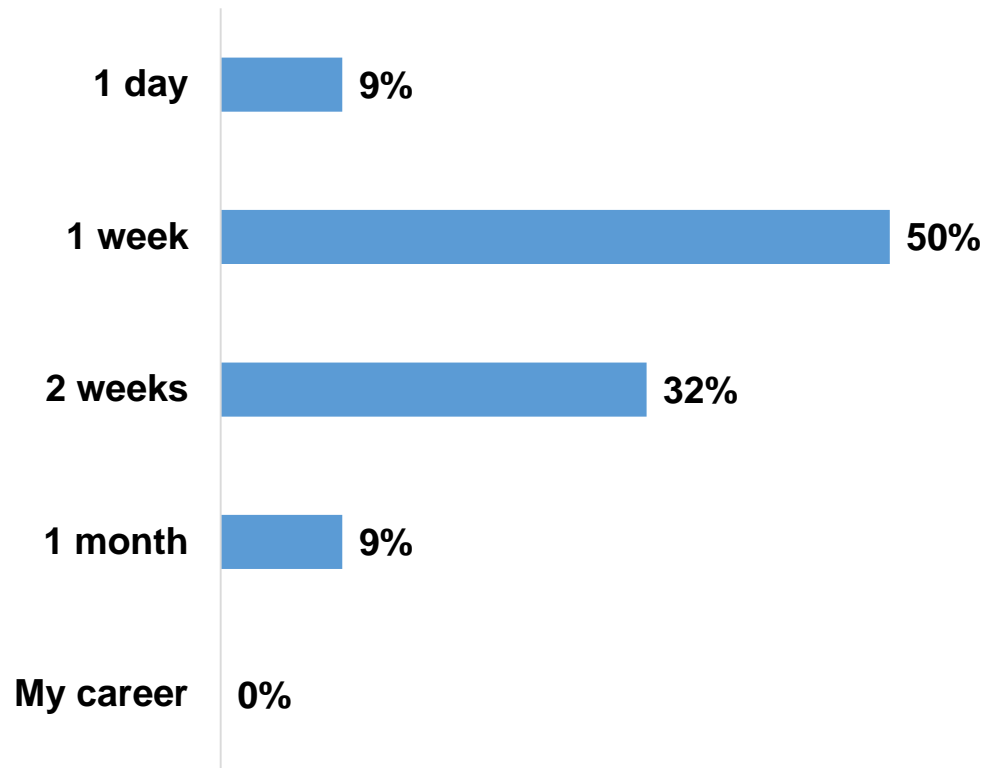


Update forecasts and run (with economics)  
approximately 1,000 PUD wells

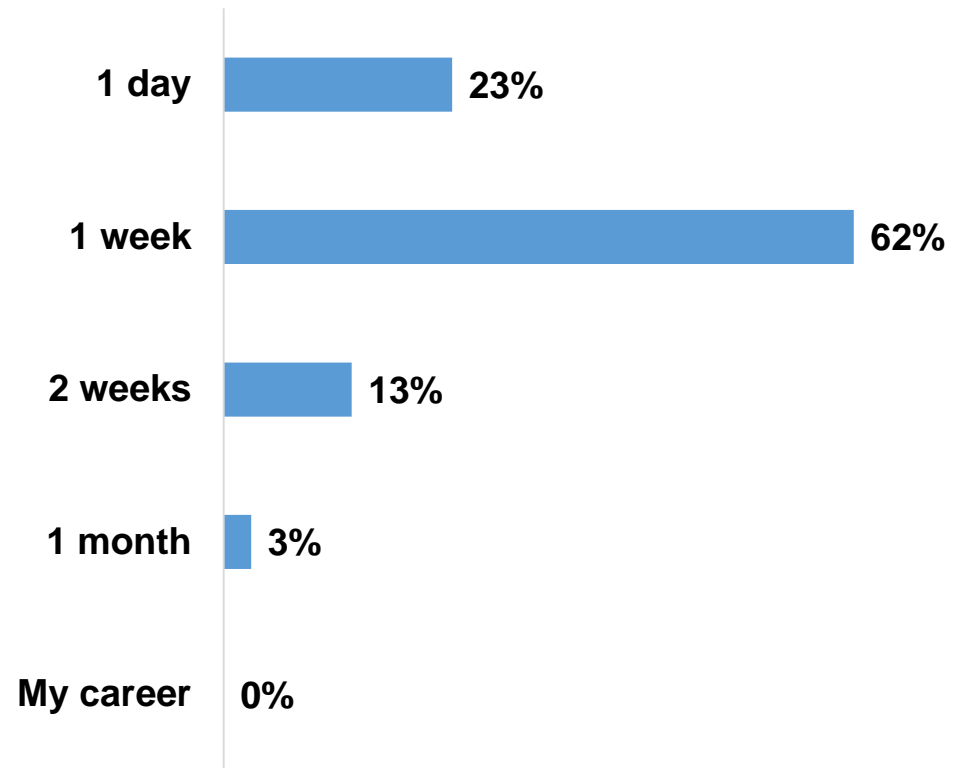


# How long does it take you to forecast? Aries

Forecast and run (with economics)  
approximately 1,000 new PDP wells

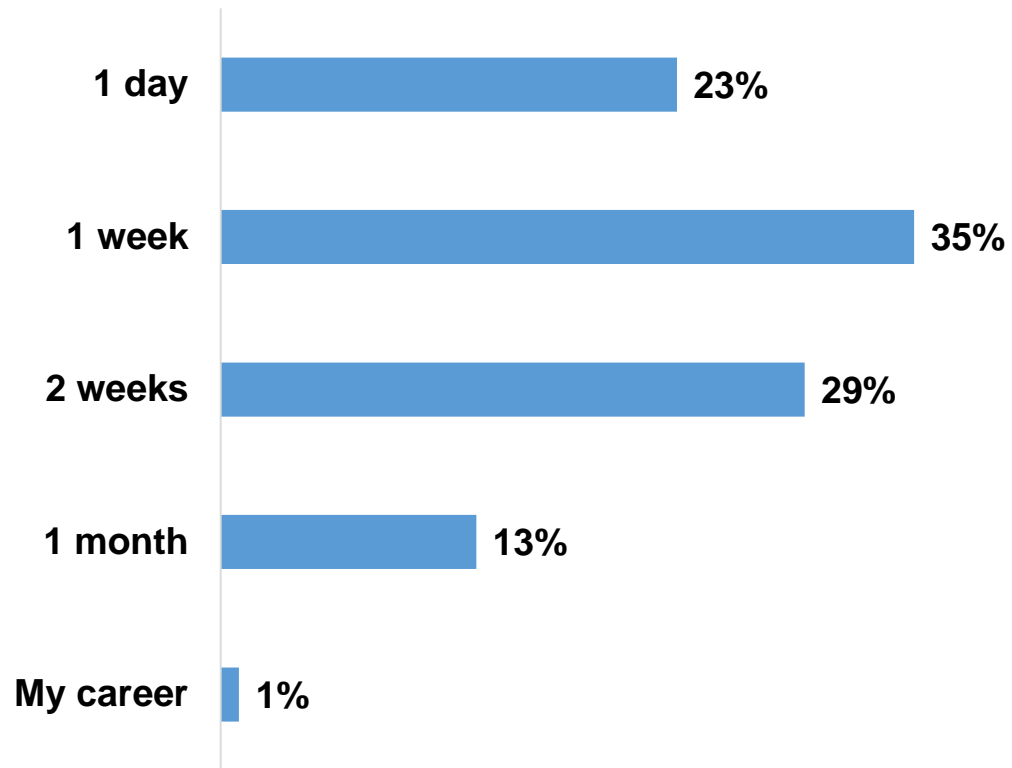


Update forecasts and run (with economics)  
approximately 1,000 PDP wells

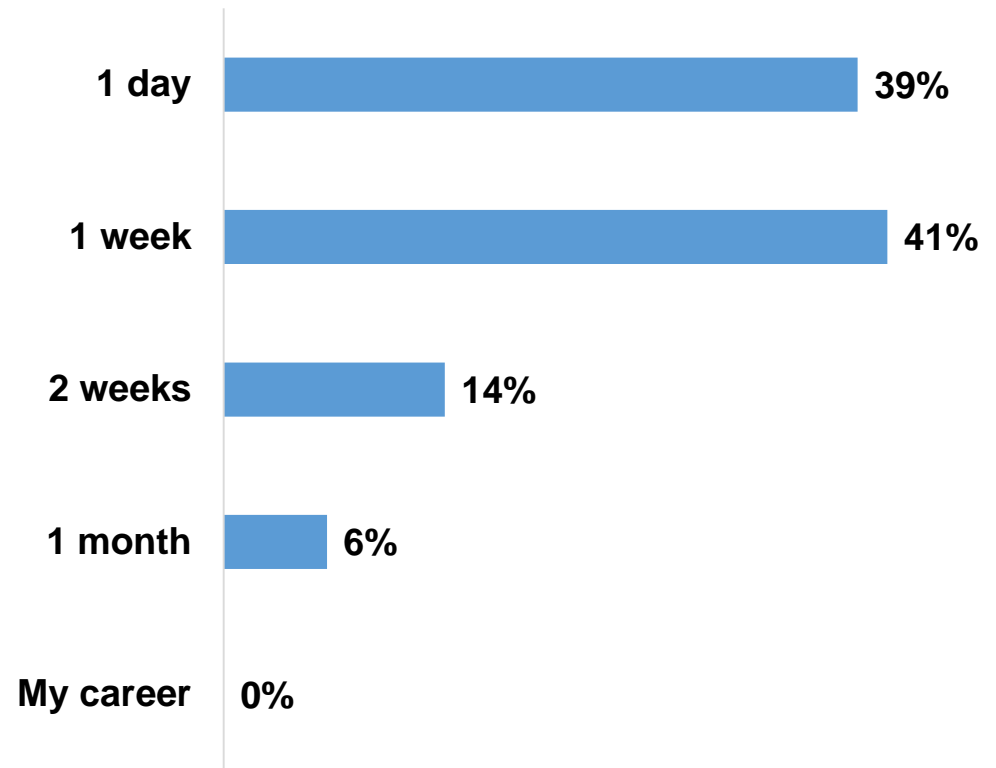


# How long does it take you to forecast? Aries

Forecast and run (with economics)  
approximately 1,000 new PUD wells

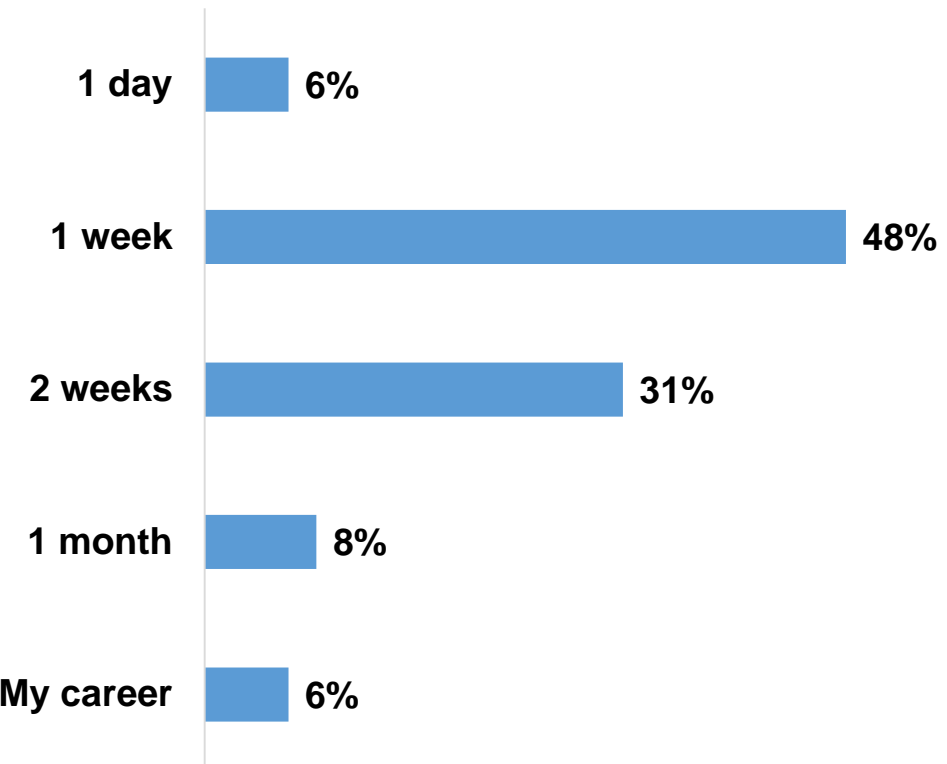


Update forecasts and run (with economics)  
approximately 1,000 PUD wells

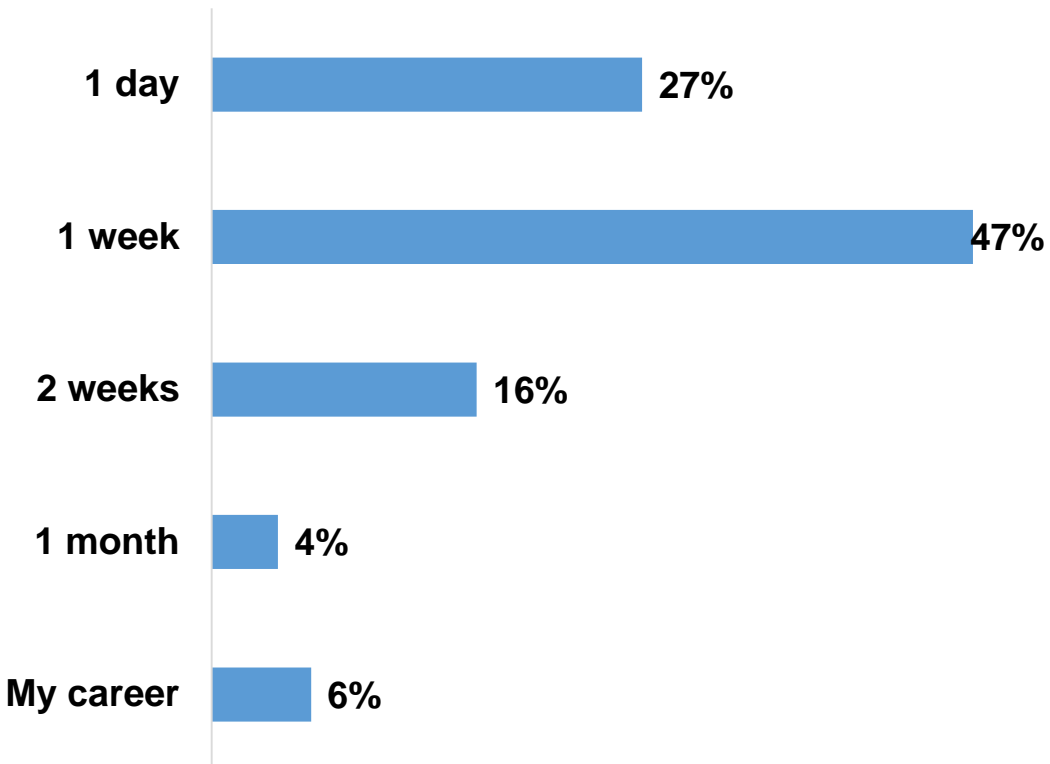


# How long does it take you to forecast? Mosaic

Forecast and run (with economics)  
approximately 1,000 new PDP wells

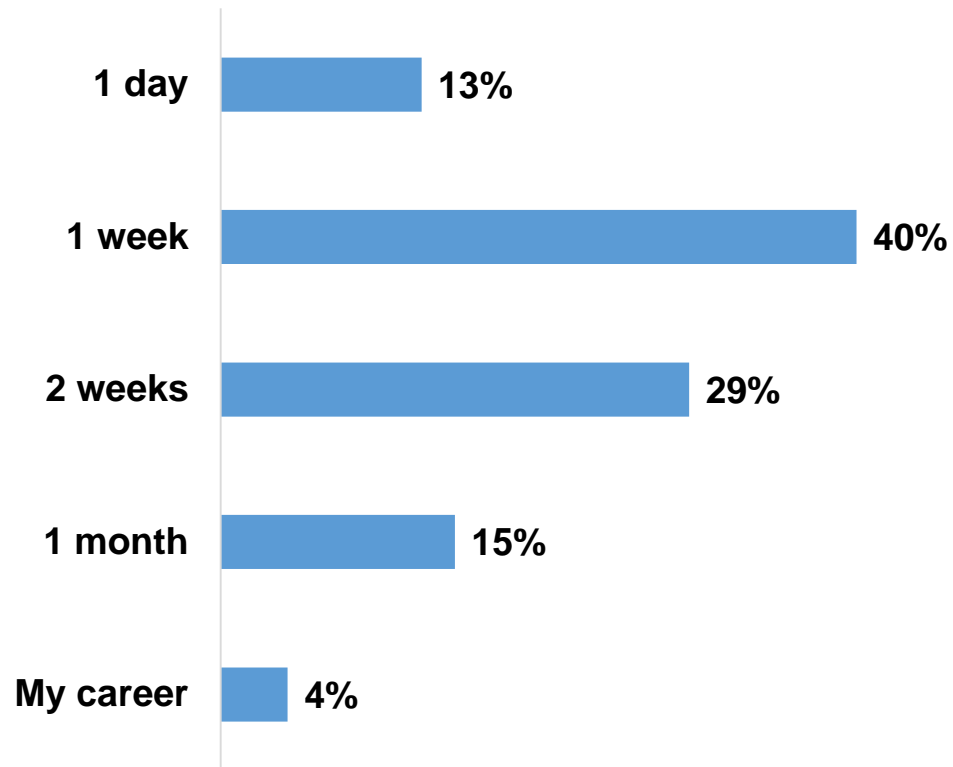


Update forecasts and run (with economics)  
approximately 1,000 PDP wells

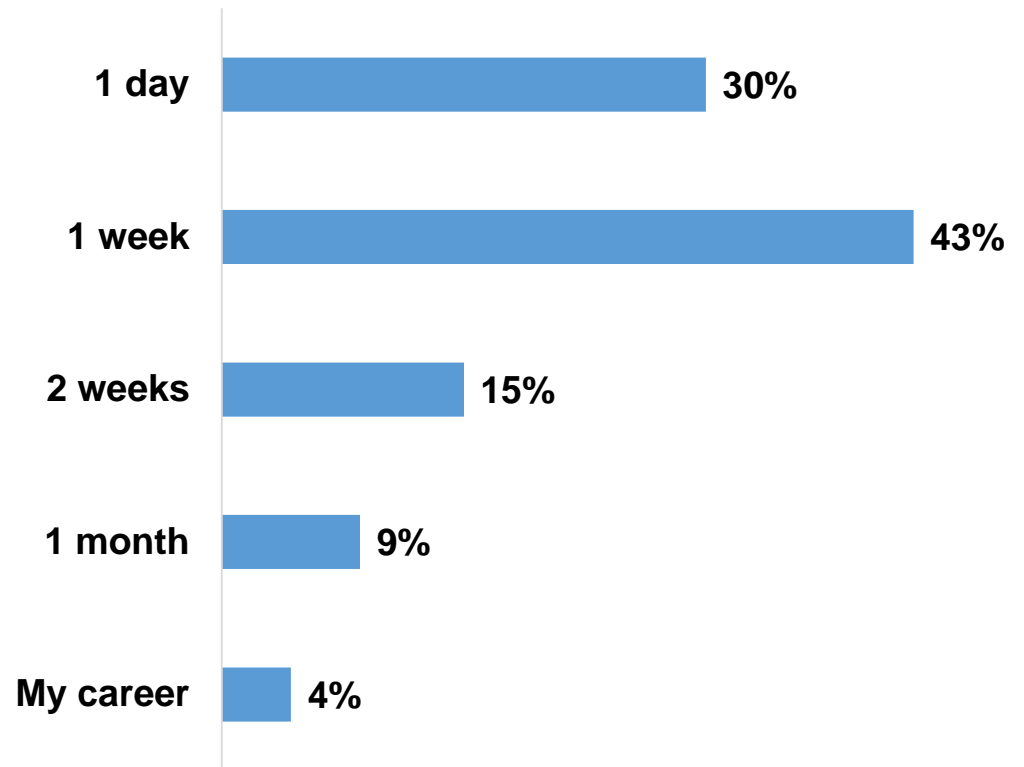


# How long does it take you to forecast? Mosaic

Forecast and run (with economics)  
approximately 1,000 new PUD wells

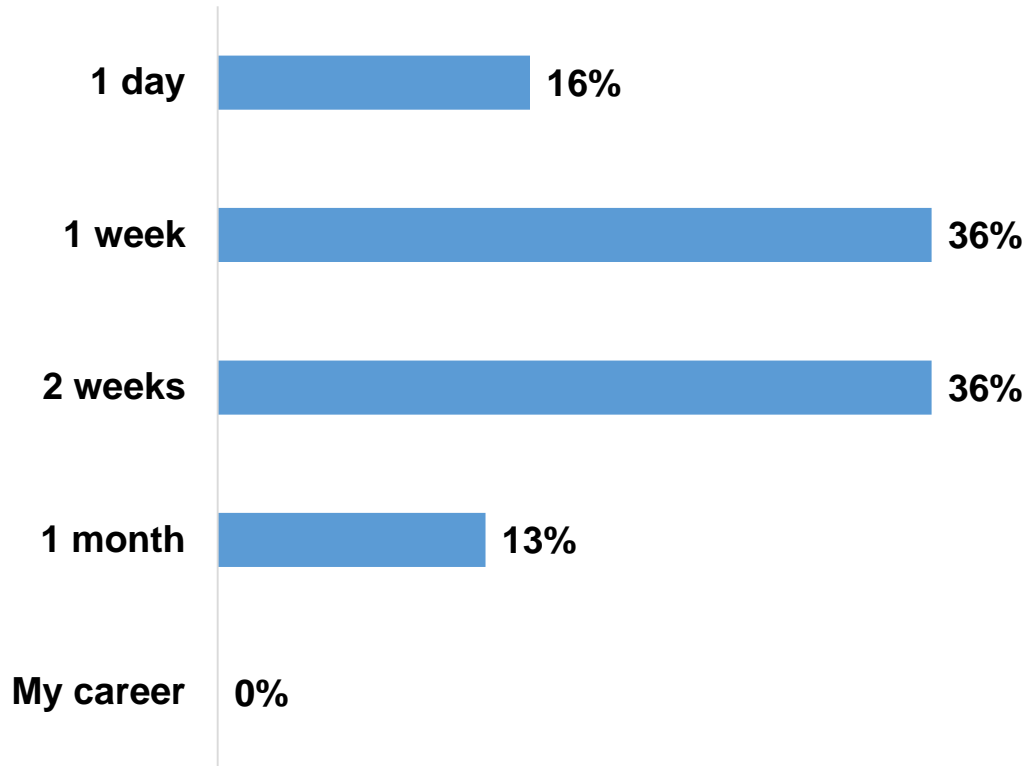


Update forecasts and run (with economics)  
approximately 1,000 PUD wells

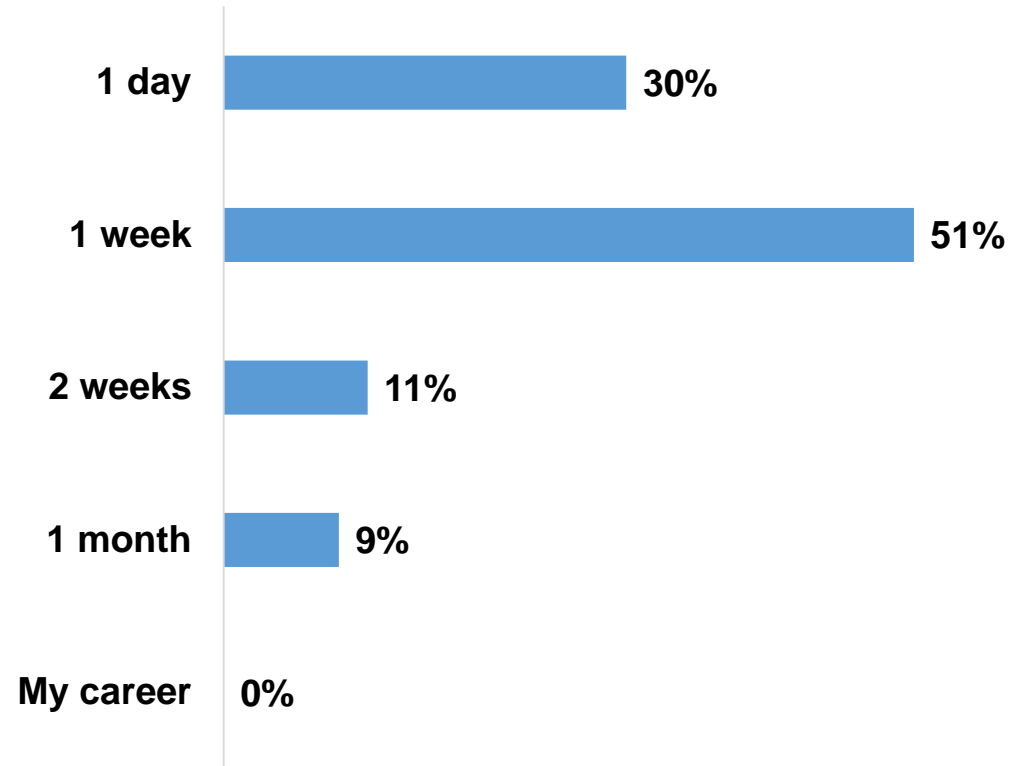


# How long does it take you to forecast? ValNav

Forecast and run (with economics)  
approximately 1,000 new PDP wells

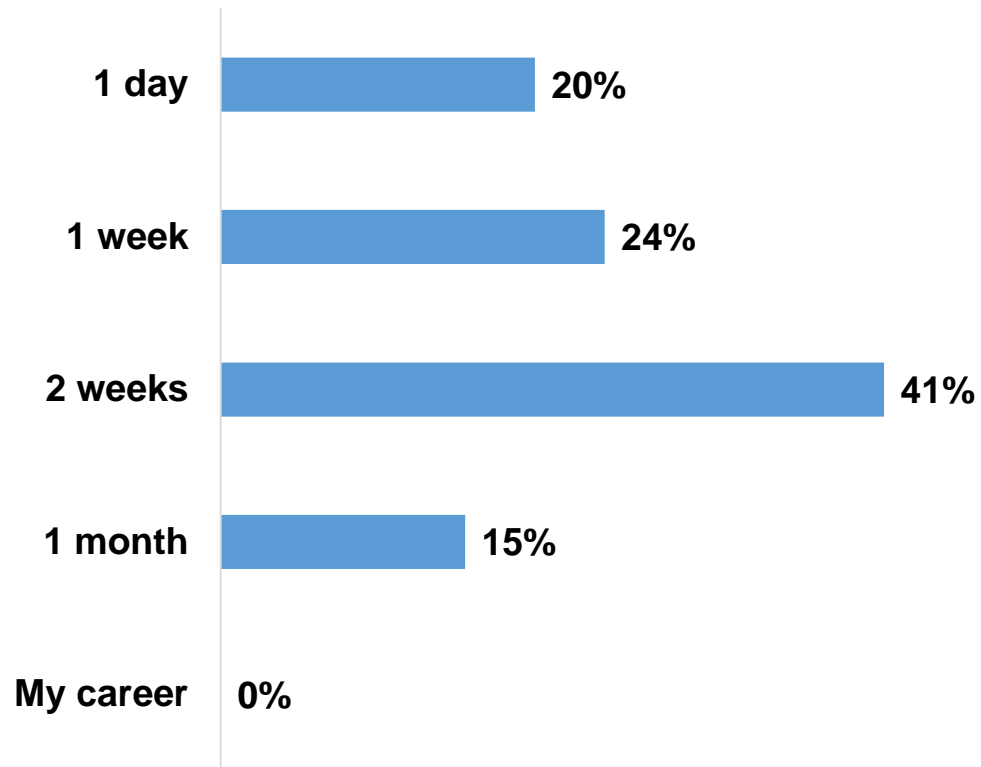


Update forecasts and run (with economics)  
approximately 1,000 PDP wells

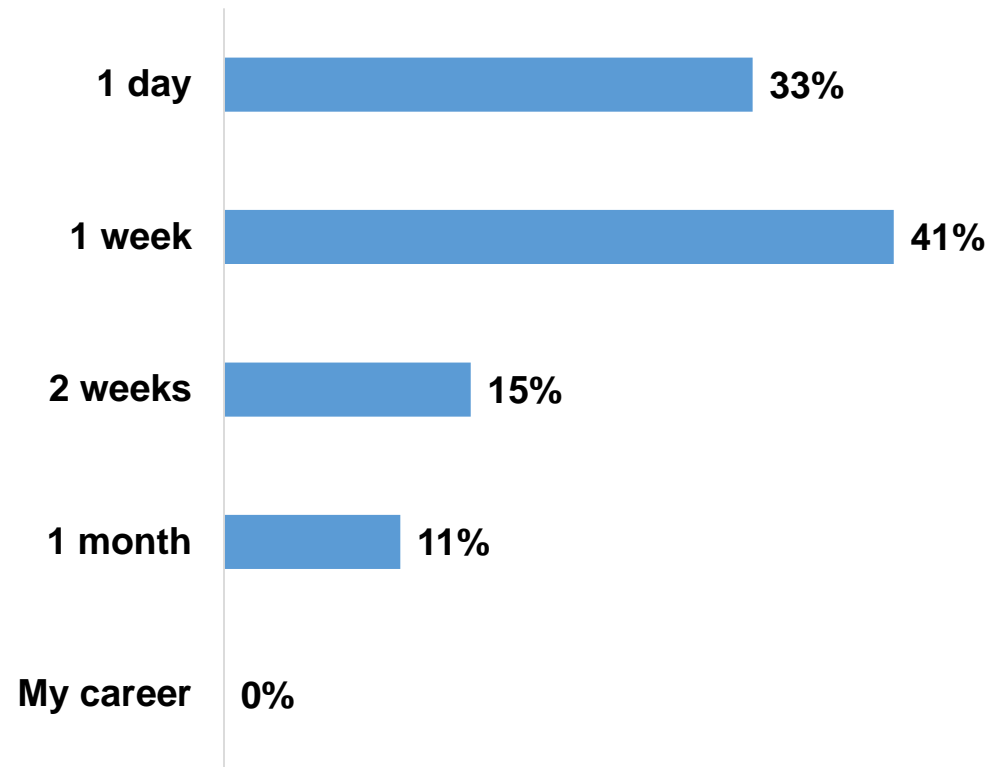


# How long does it take you to forecast? ValNav

Forecast and run (with economics)  
approximately 1,000 new PUD wells

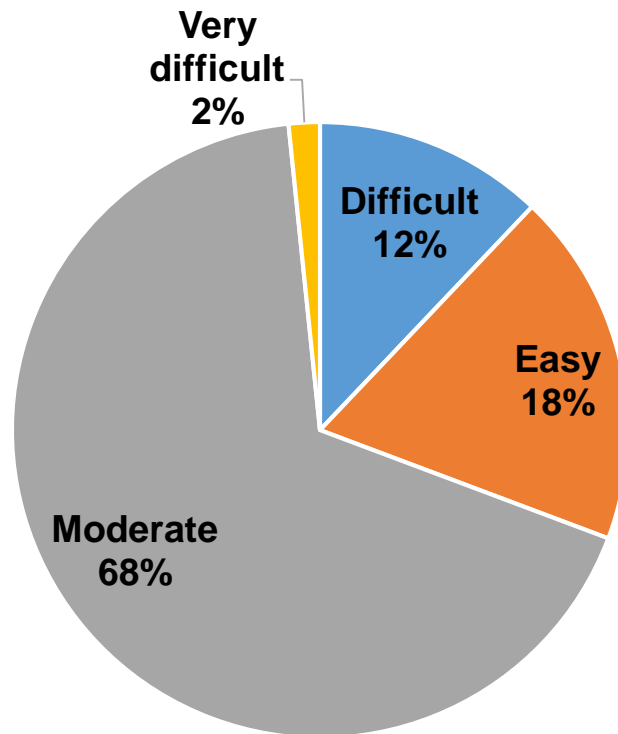


Update forecasts and run (with economics)  
approximately 1,000 PUD wells

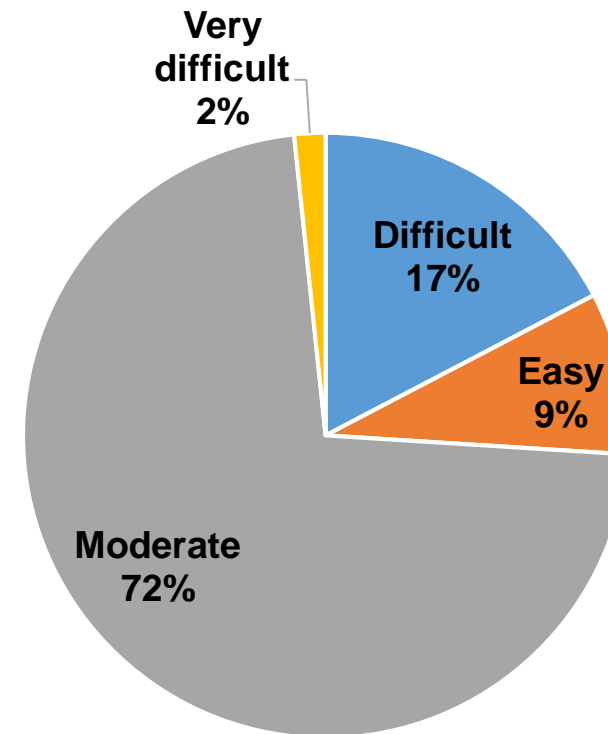


# How difficult is your software to learn?

Economic Software Learning Curve

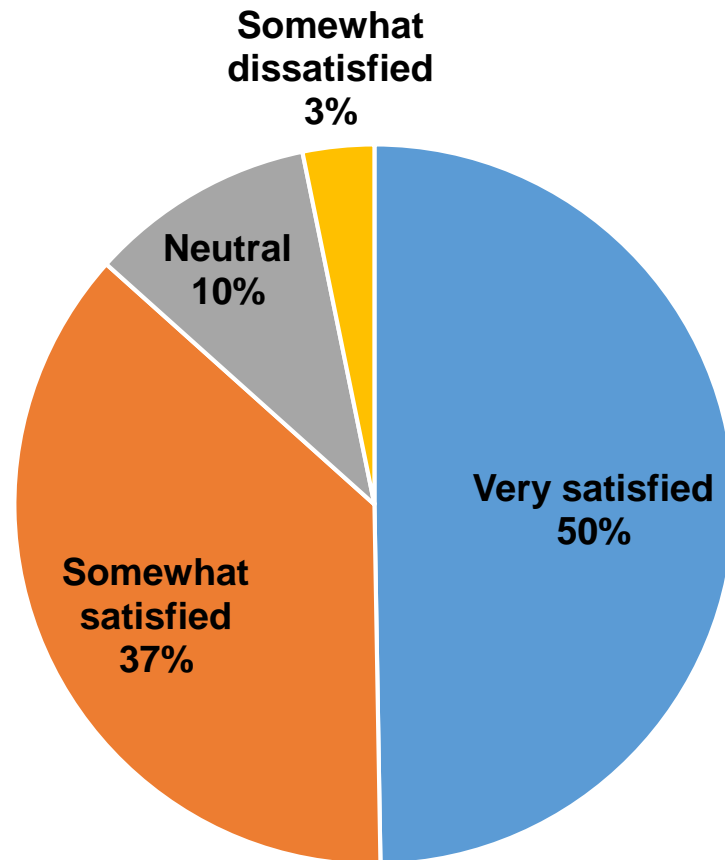


Technical Analysis Software Learning Curve

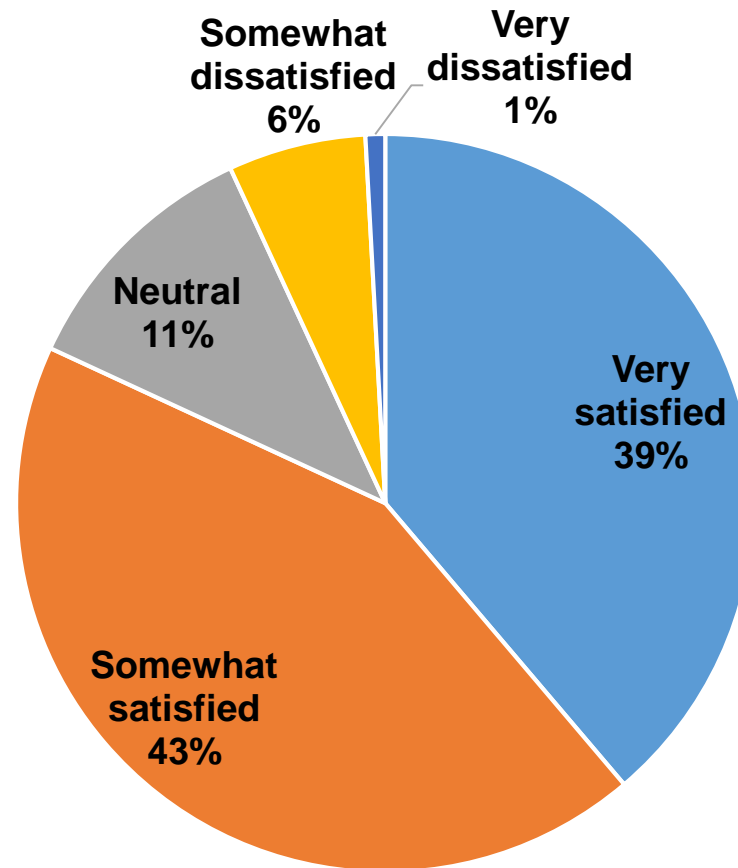




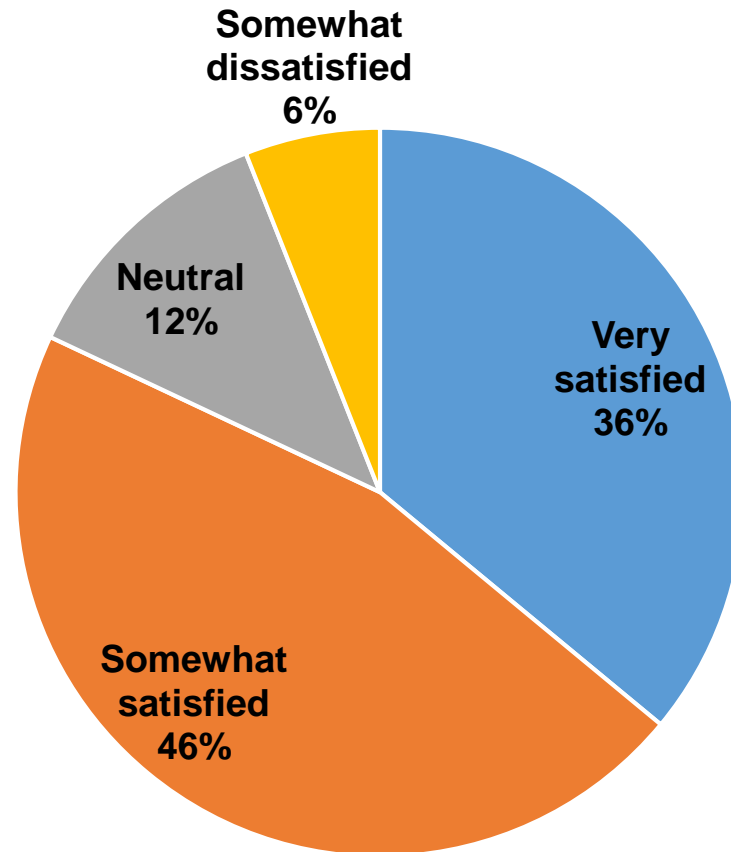
# How satisfied are you with your economic software? – PHDWin



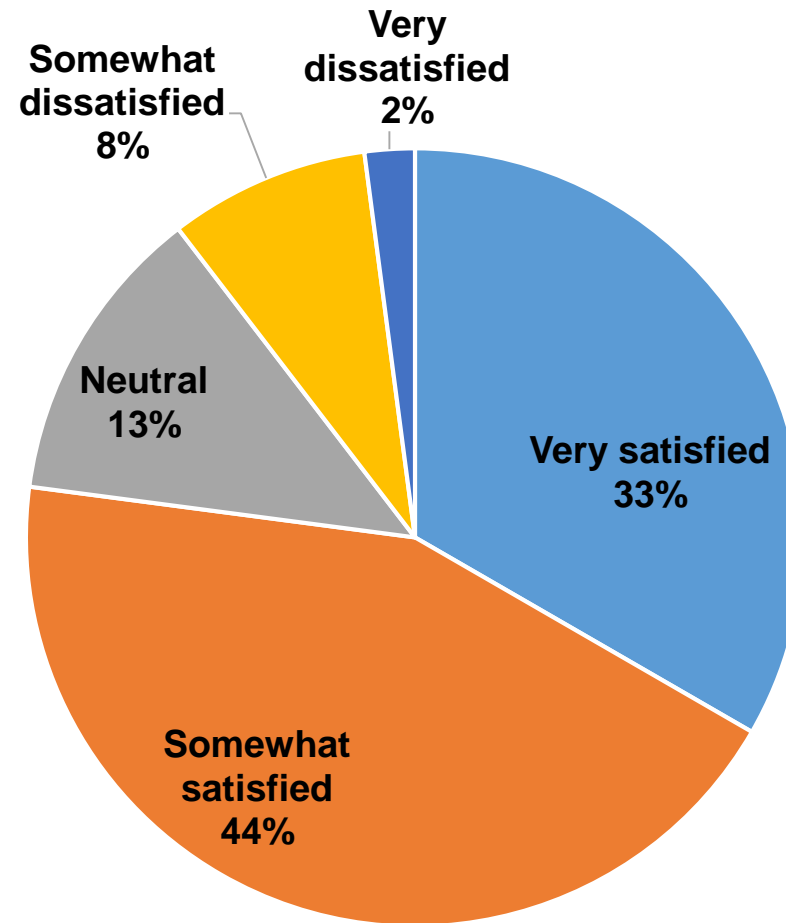
# How satisfied are you with your economic software? – Aries



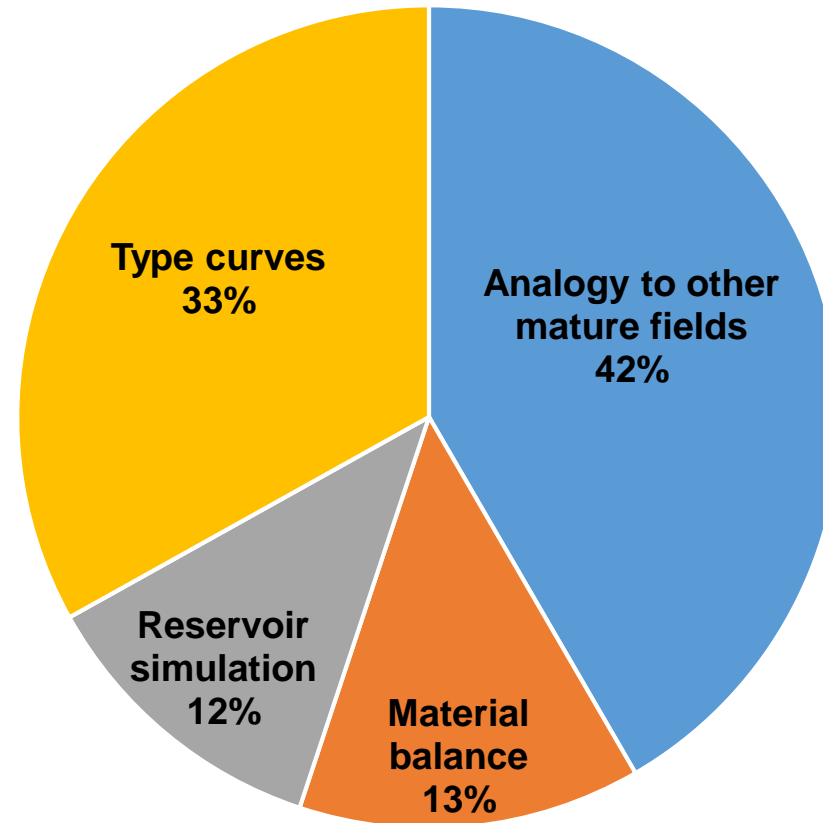
# How satisfied are you with your economic software? – Mosaic



# How satisfied are you with your economic software? – ValNav

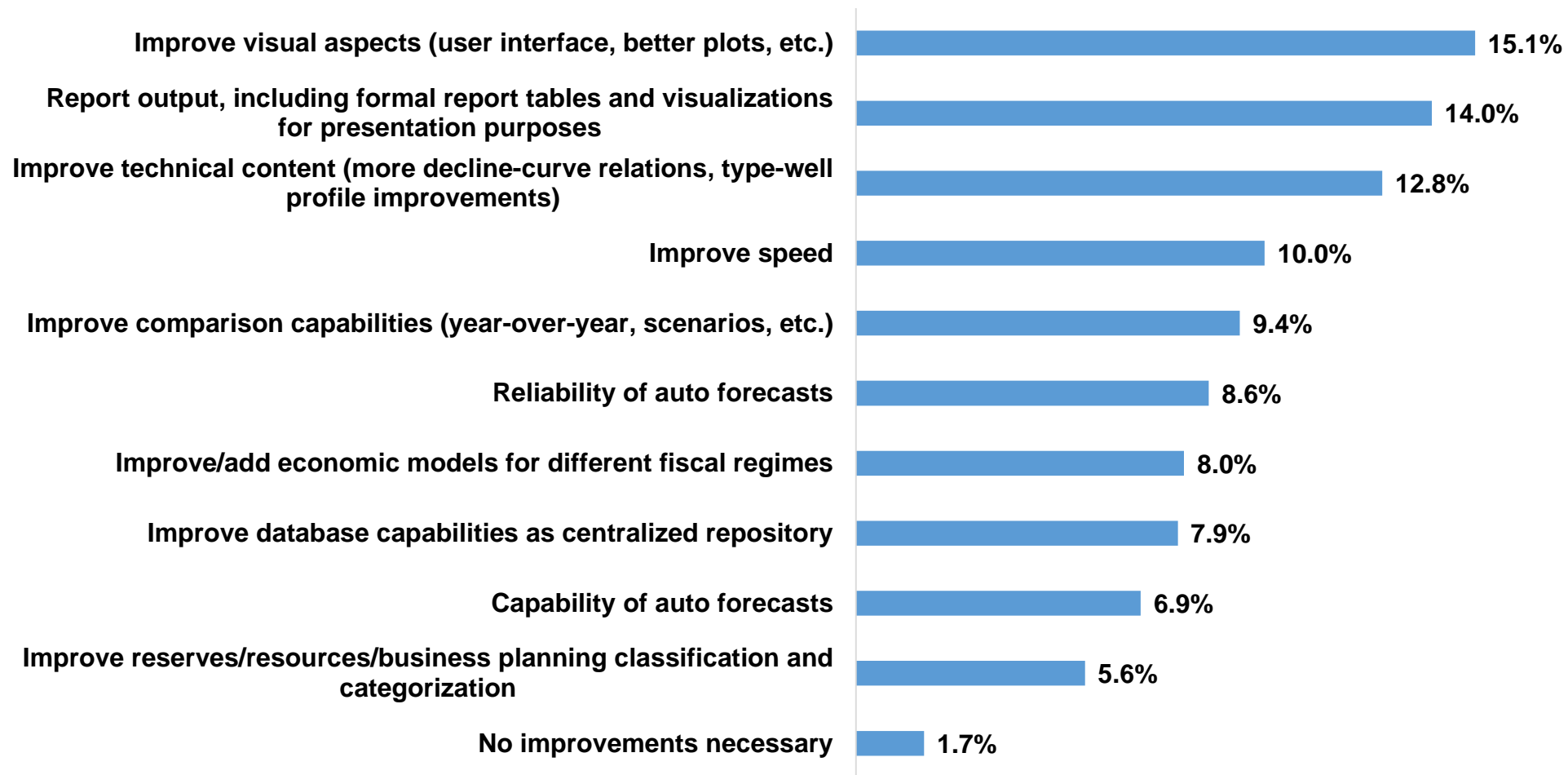


# How do you arrive at recovery factors from immature fields?

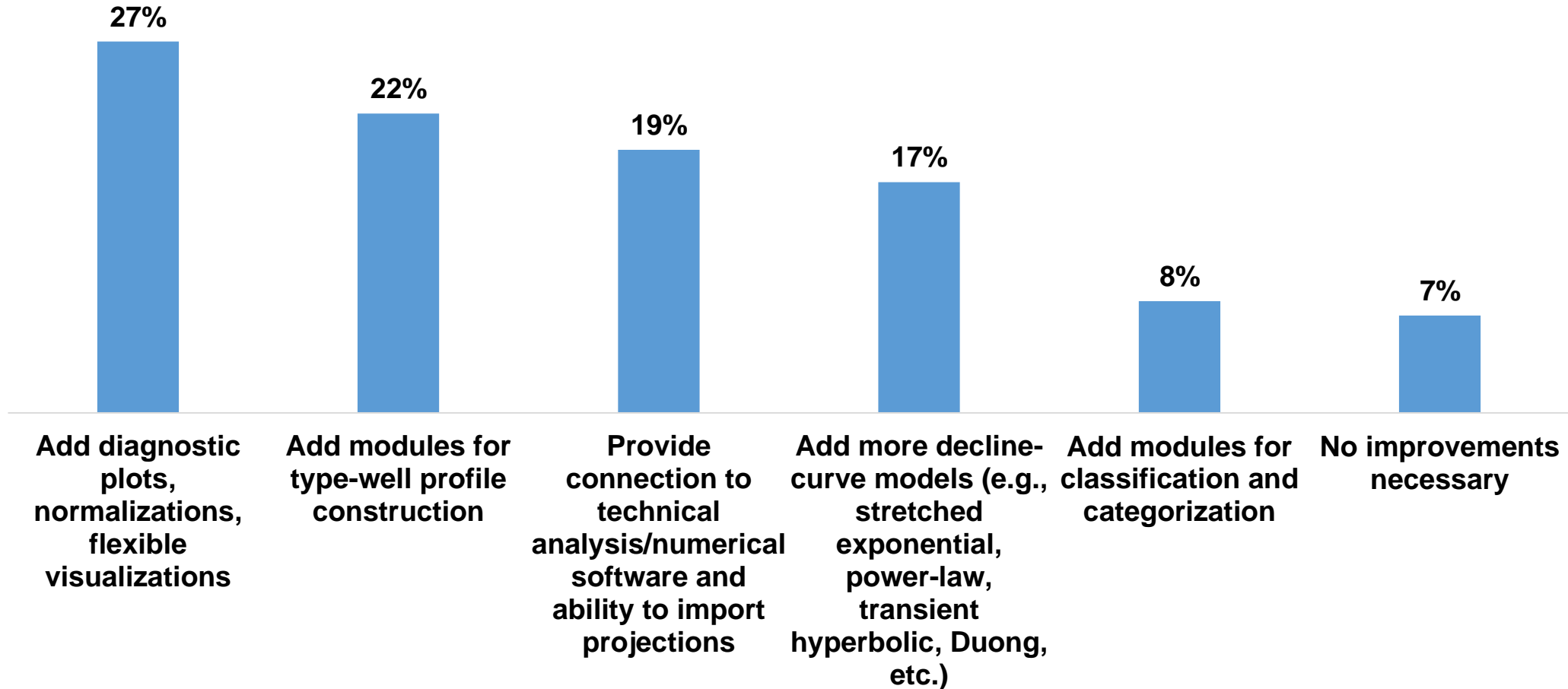


# Software Improvements

# What are the features you most urgently need from your economic software?

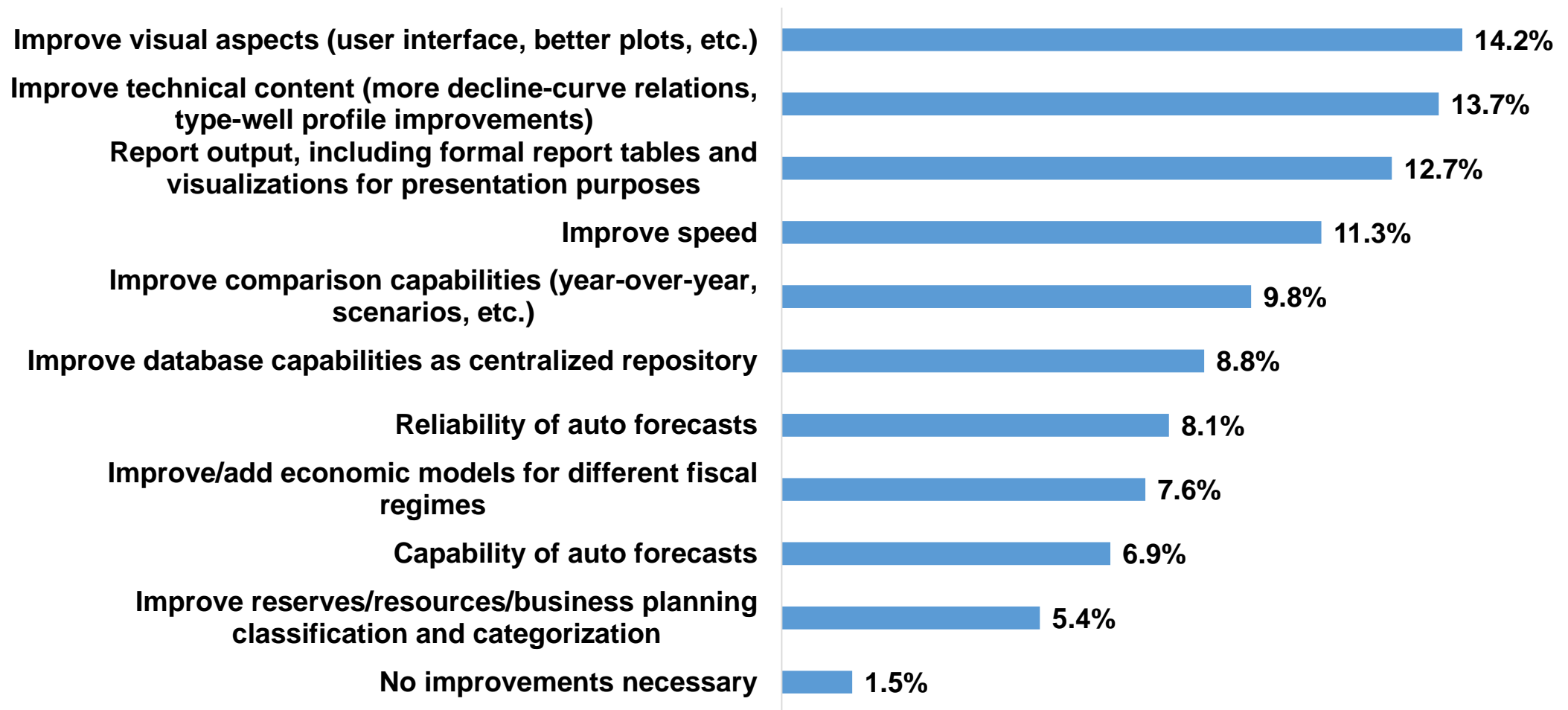


# Technical improvements that your economic software needs

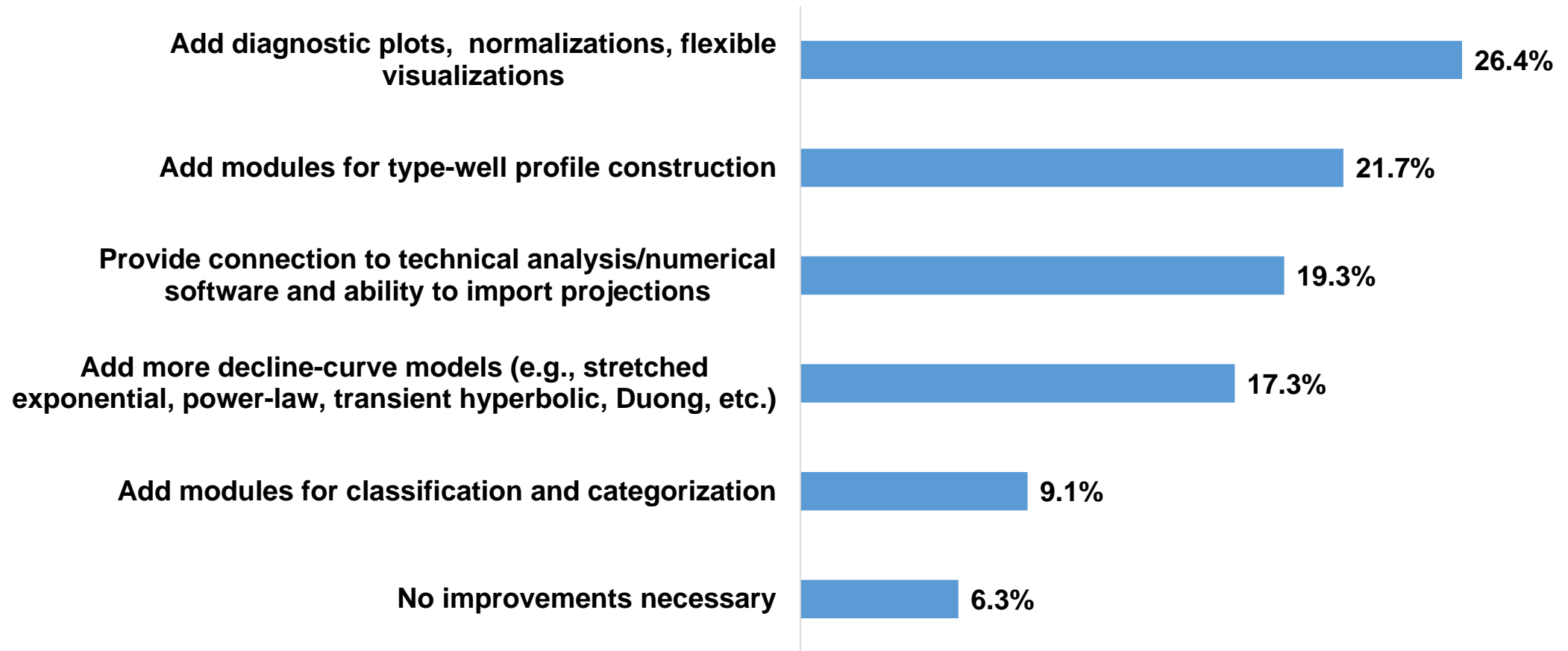




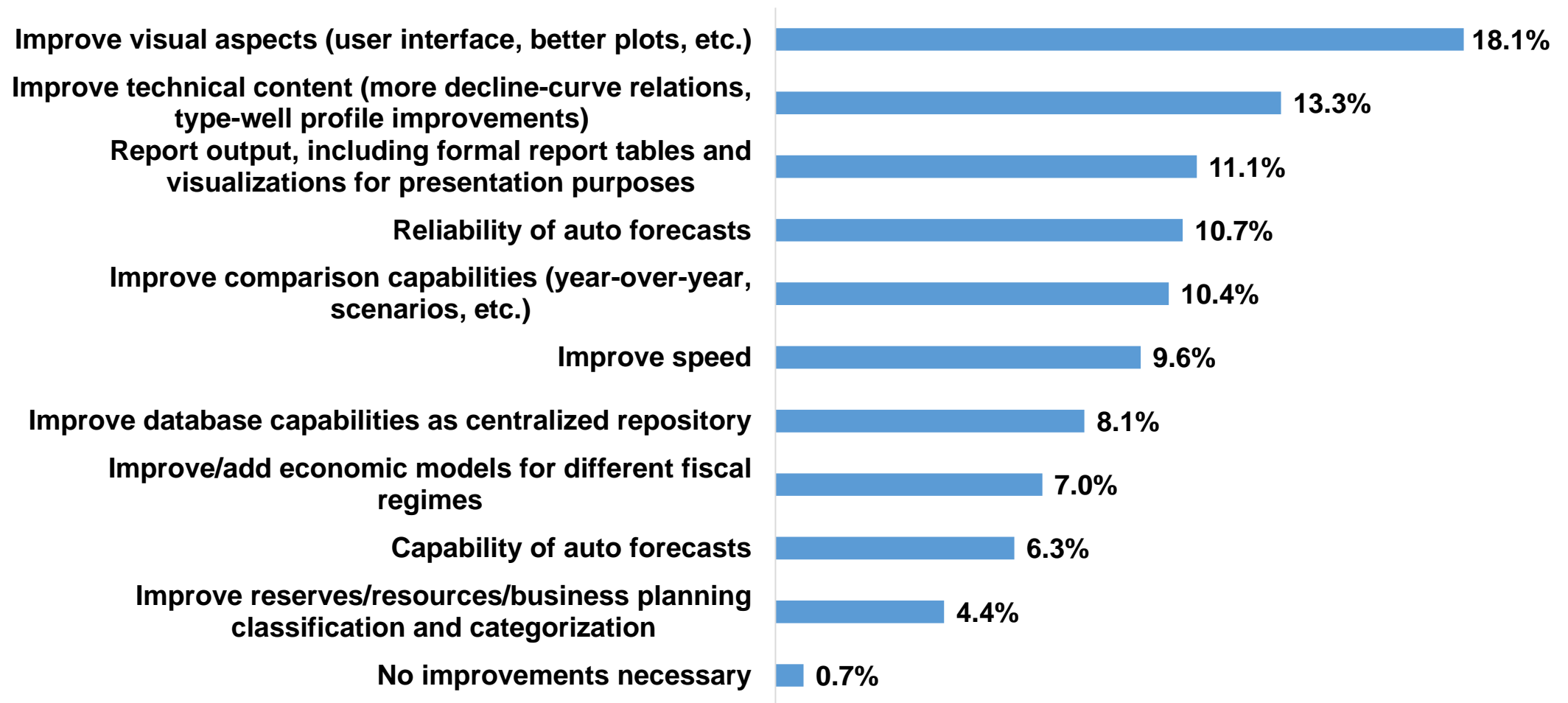
# Urgent needs — PHDWin



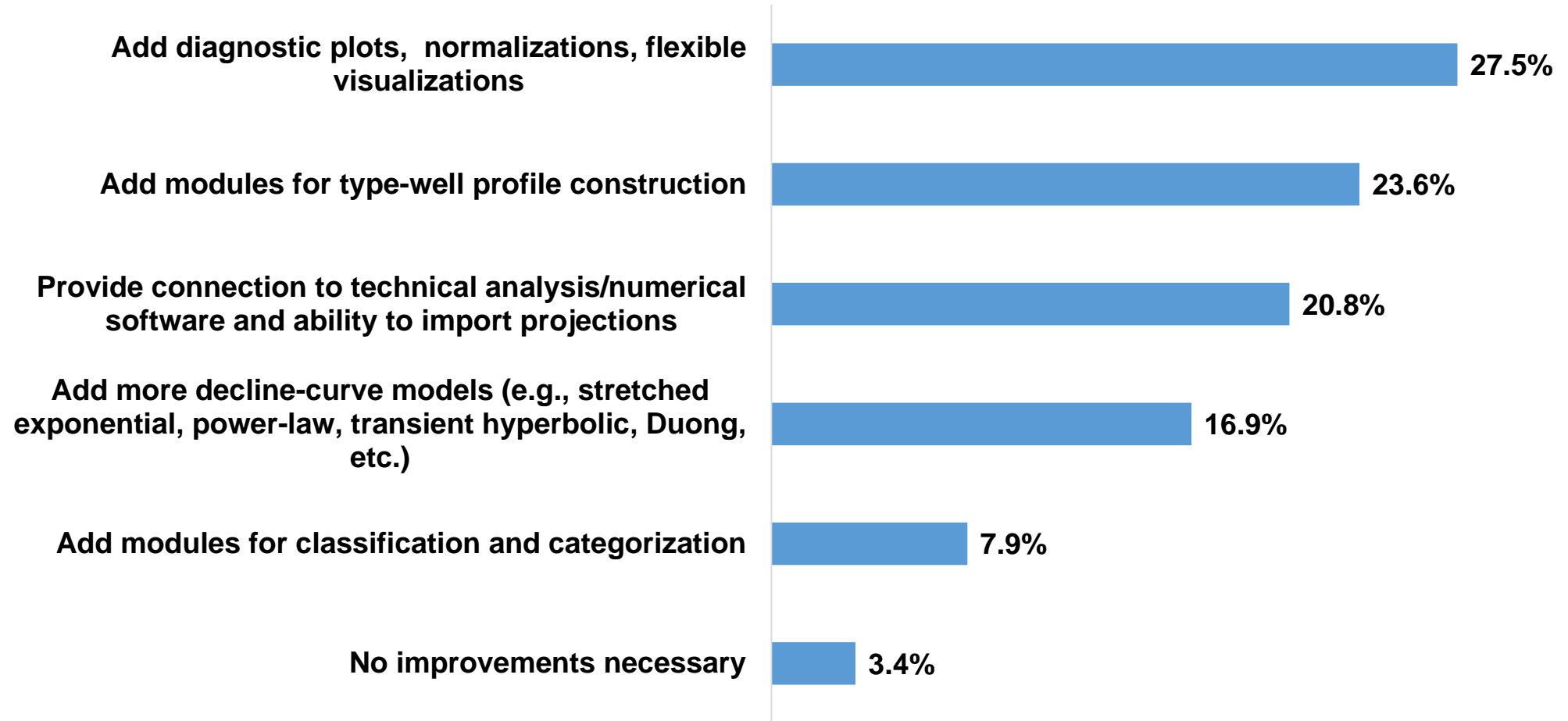
# Technical improvements — PHDWin



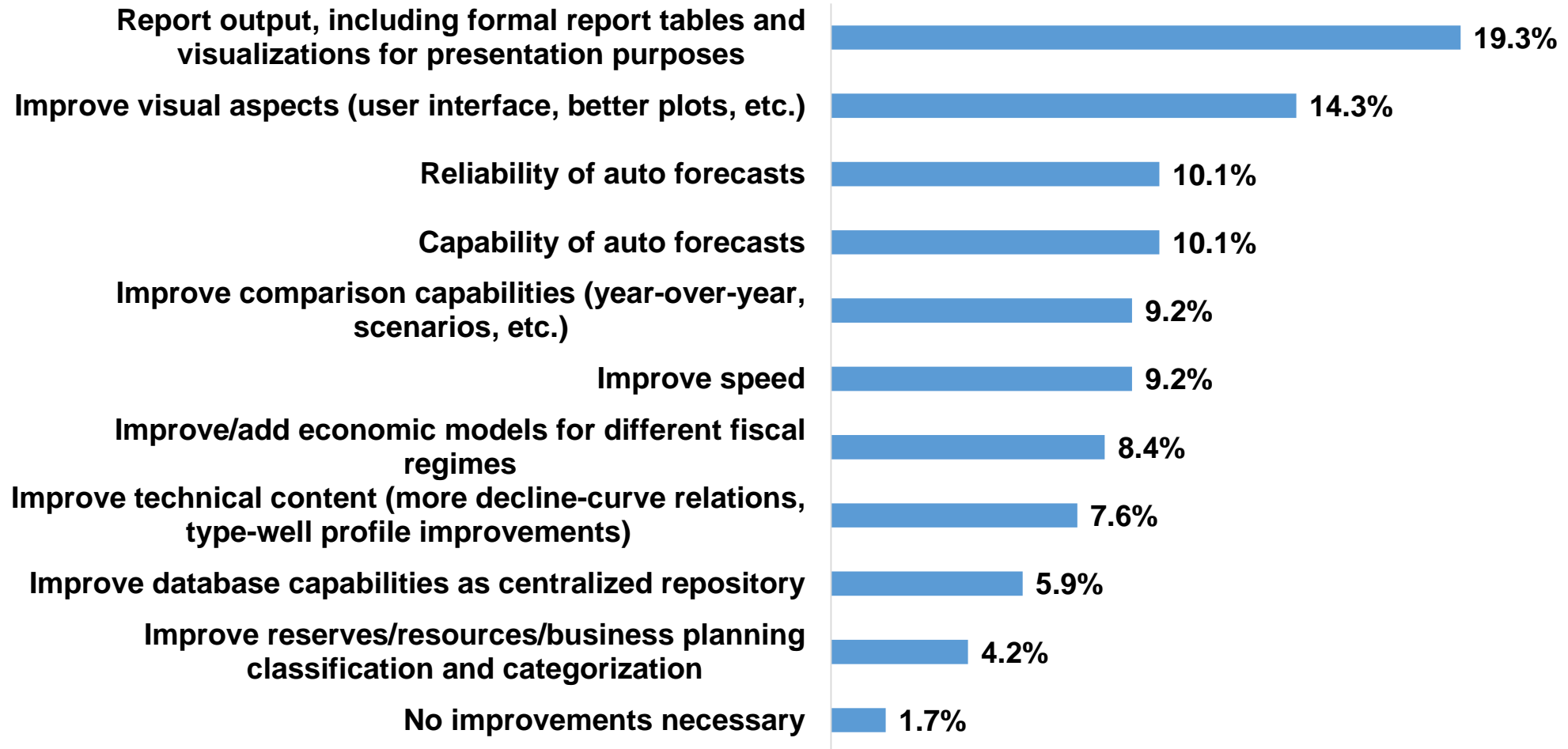
# Urgent needs — Aries



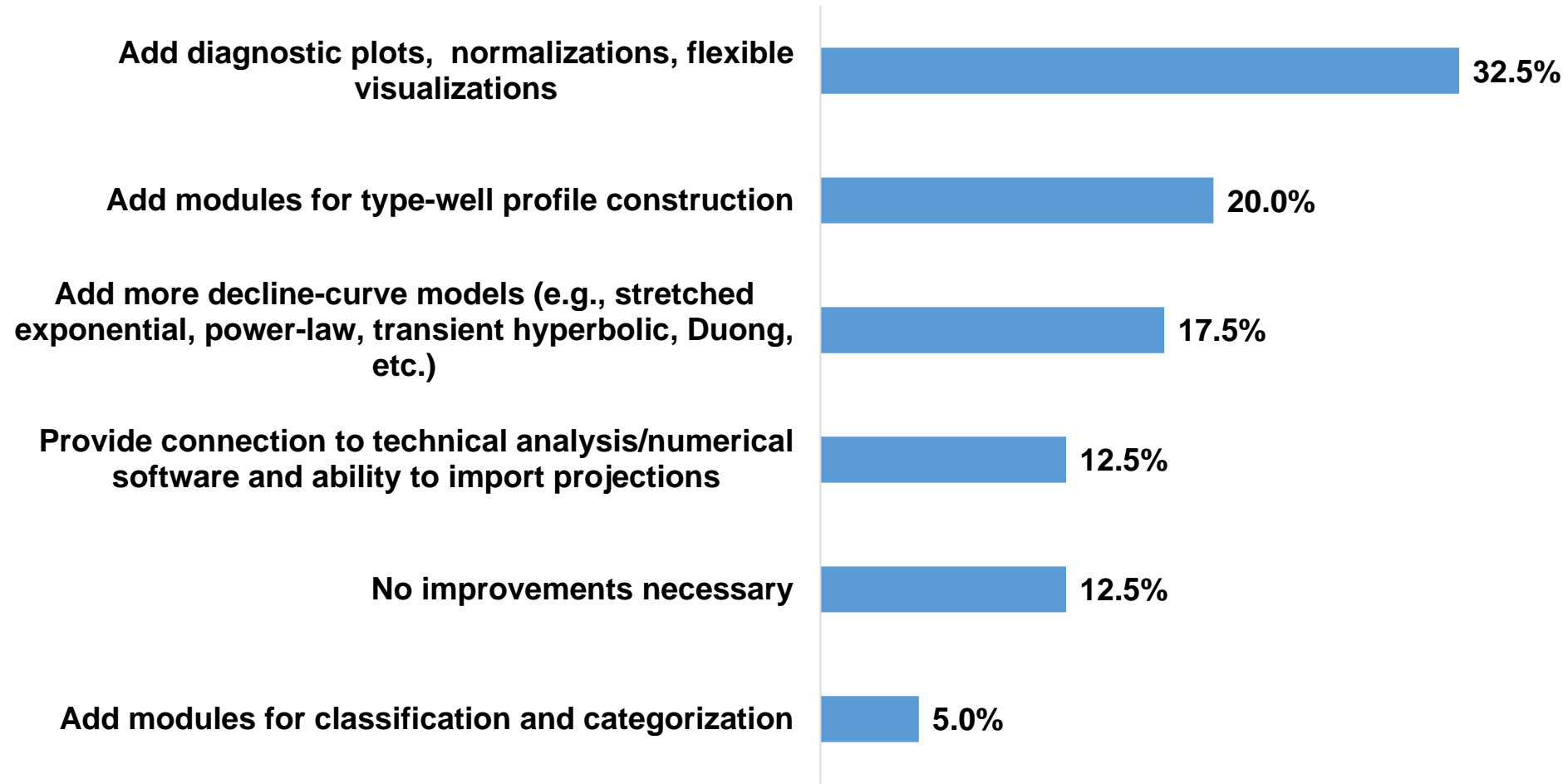
# Technical improvements — Aries



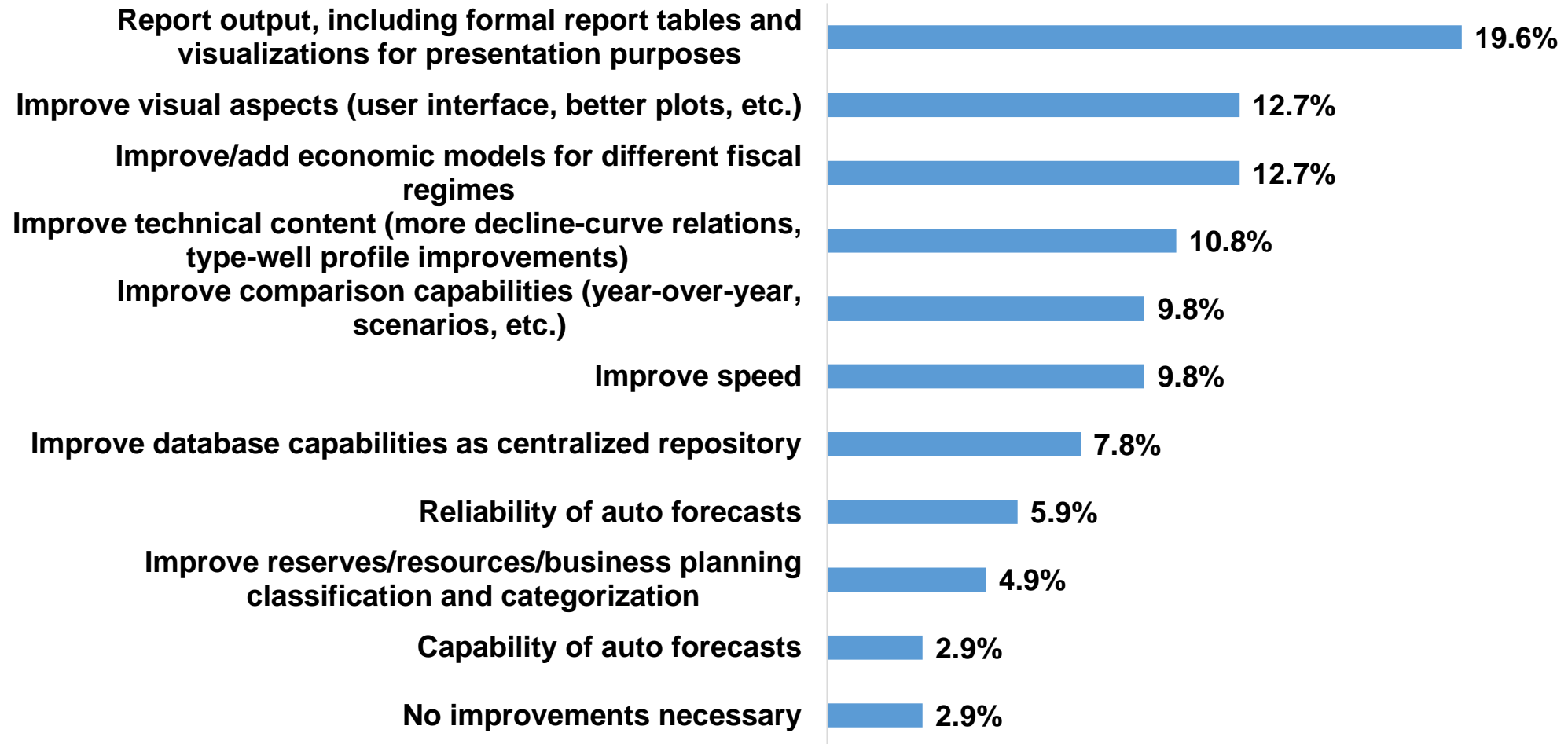
# Urgent needs — Mosaic



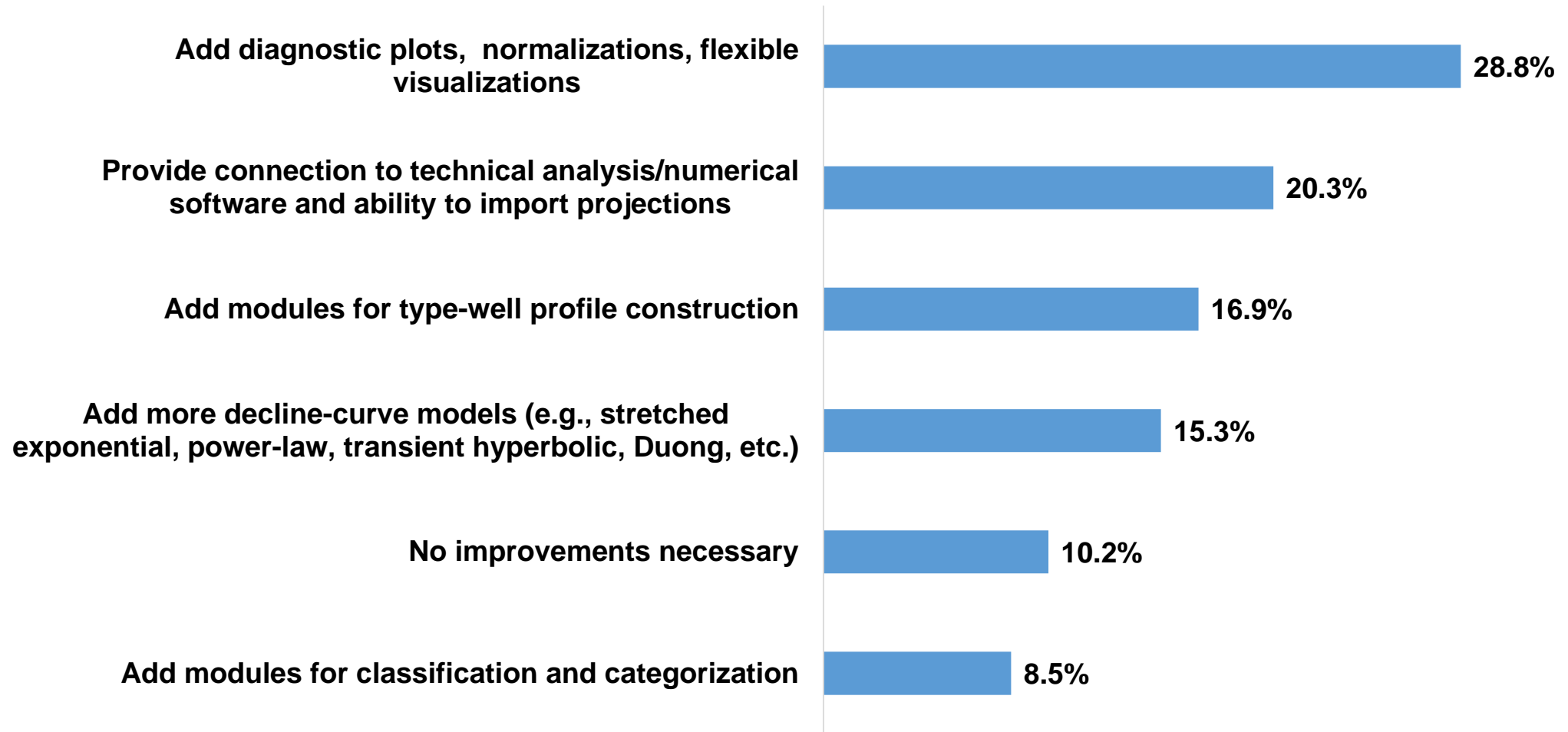
# Technical improvements — Mosaic



# Urgent needs — ValNav



# Technical improvements — ValNav





# Conclusions

- Generally survey participants expressed their satisfaction with their economic software.
- Arps' decline is the widely used methodology for production forecasts.
- Participants expressed interest in improved type well profiles modules in economic software.
- Economic software requires improvements for report output, improvements in visualizing/tabulating results and technical content.
- Most urgent technical improvement in economic software appears to be diagnostic plots, normalizations, and flexible visualizations.



# 2018 Survey Results

SPEE 2018 Petroleum Evaluation Software Symposium

For questions, please contact Dilhan Ilk – [dilk@demac.com](mailto:dilk@demac.com)