

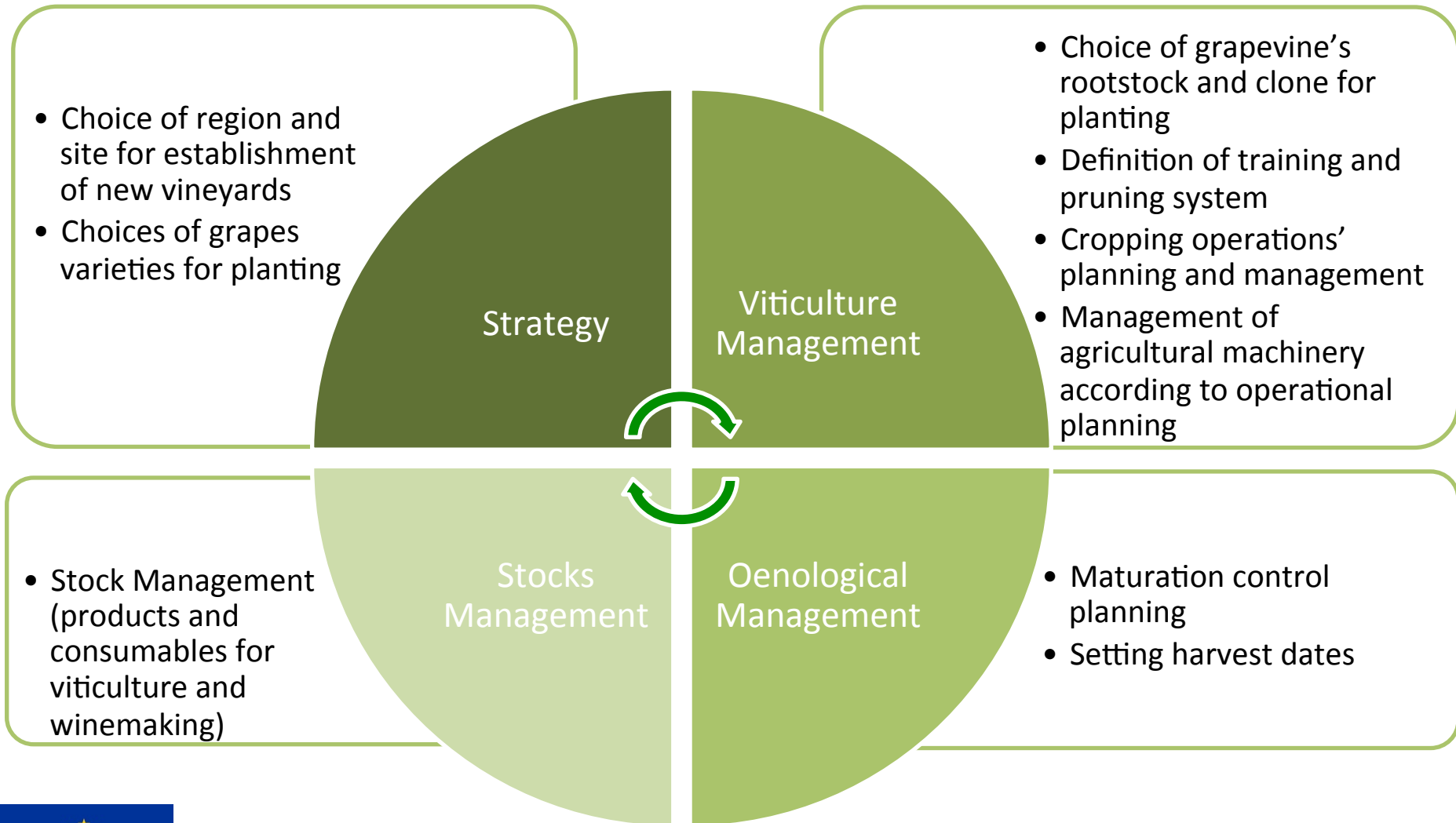
# WP3 Status of co-design: pilot service on grape/wine

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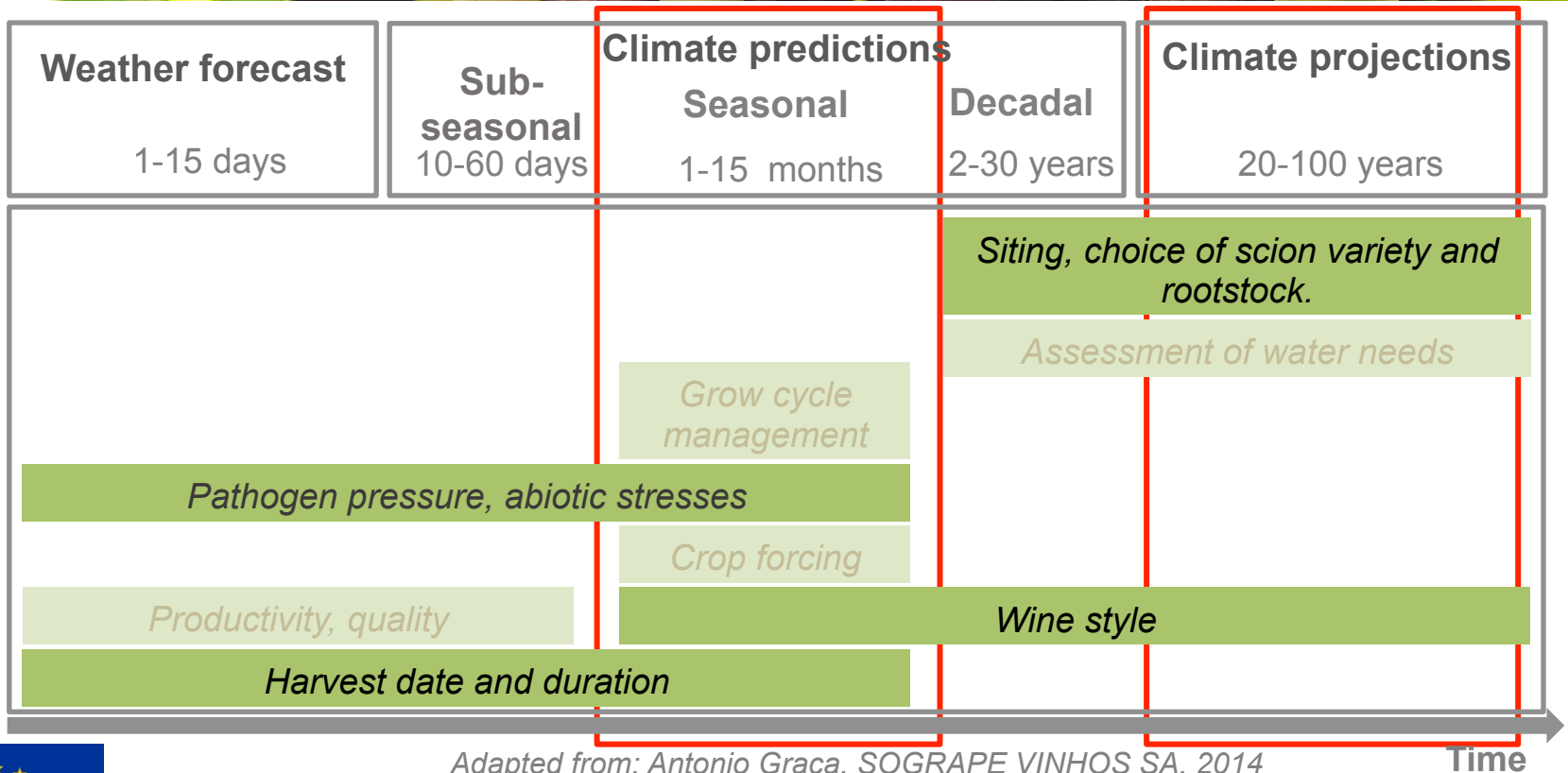




# Key Wine Business value chain decisions influenced by climate



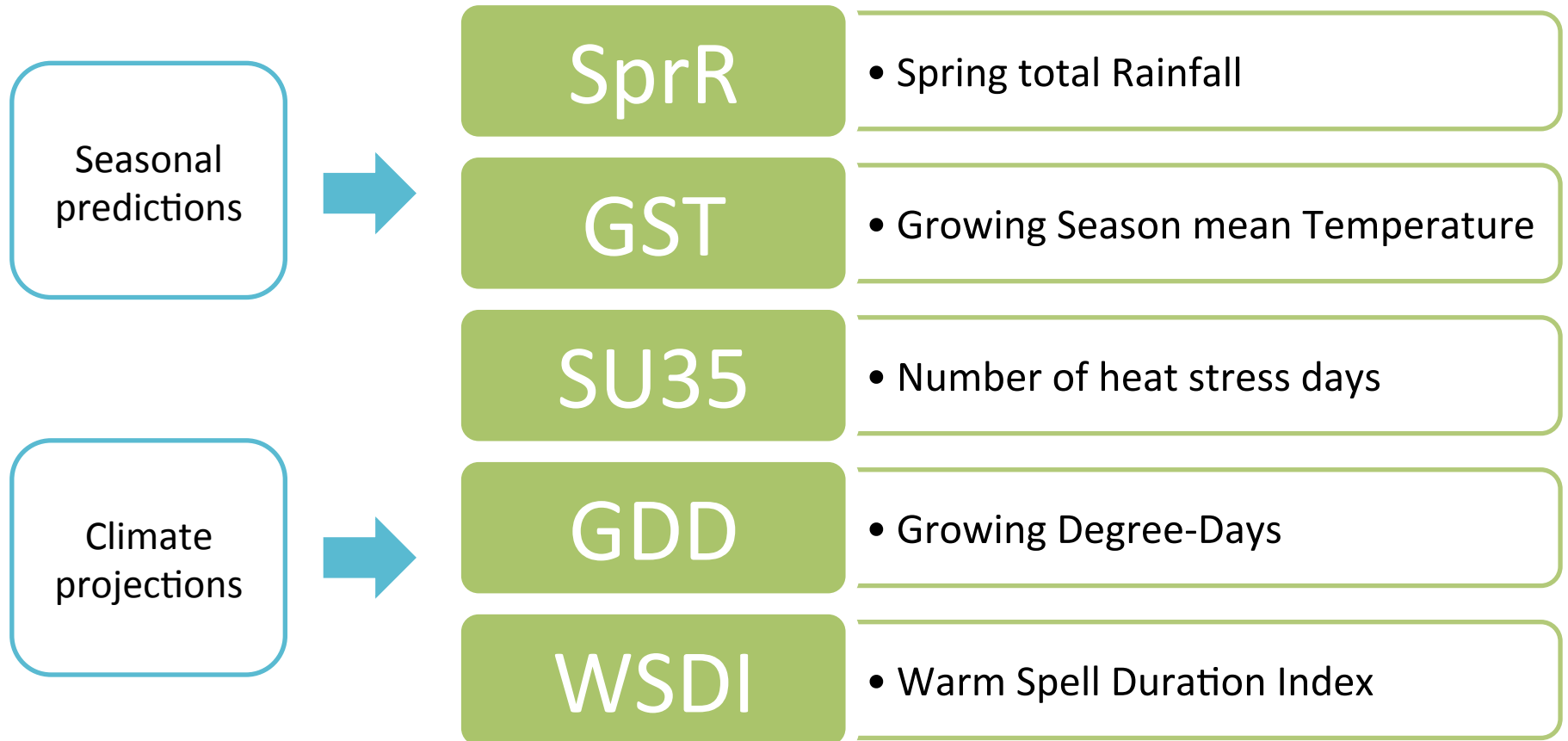
# Decisions targeted by the service



Adapted from: Antonio Graça, SOGRAPE VINHOS SA, 2014



# Service's output: Bio-climatic indices



# User Requirements: outputs from D3.1

Seasonal  
predictions  
( 6 months)

## User requirements:

- Weekly resolution and updates (but monthly could be also good).
- Probability > 70 %

Climate projections

- Quarterly resolution and updates.
- Probability > 80 %

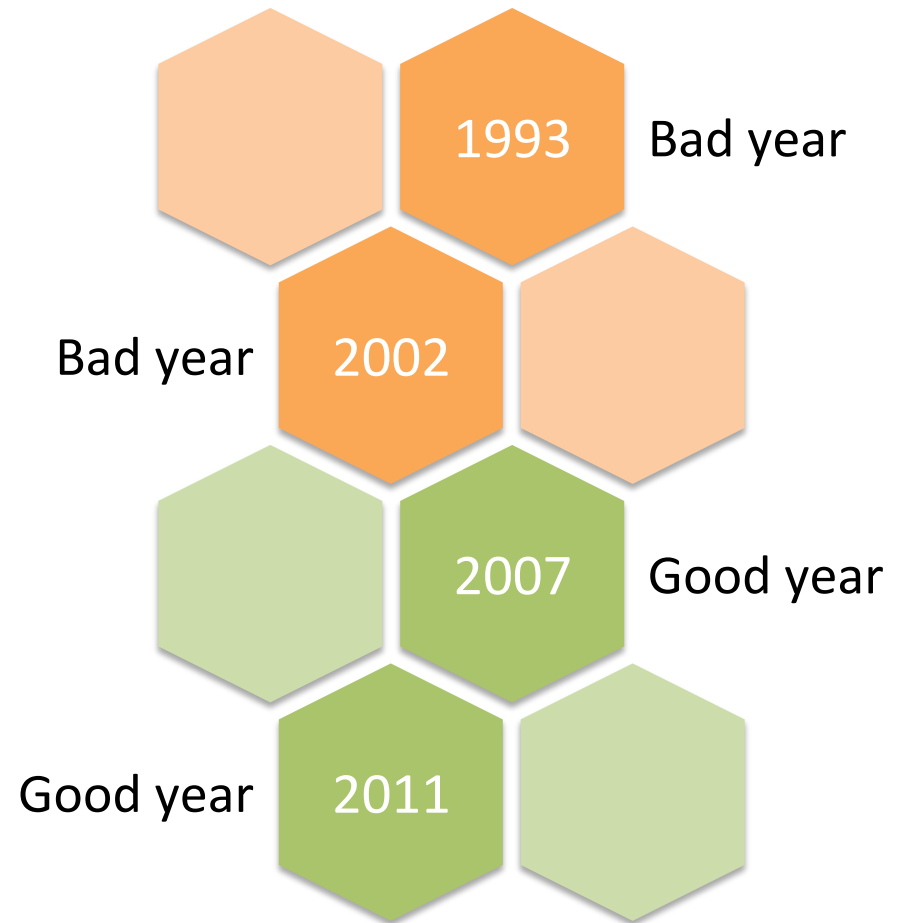
# Testing the service: case studies of the past

## What is a case study?

Case studies of the past may be understood as past events of relevance for the user.

## What is their purpose?

Case studies helps to test the added value of the climate service.

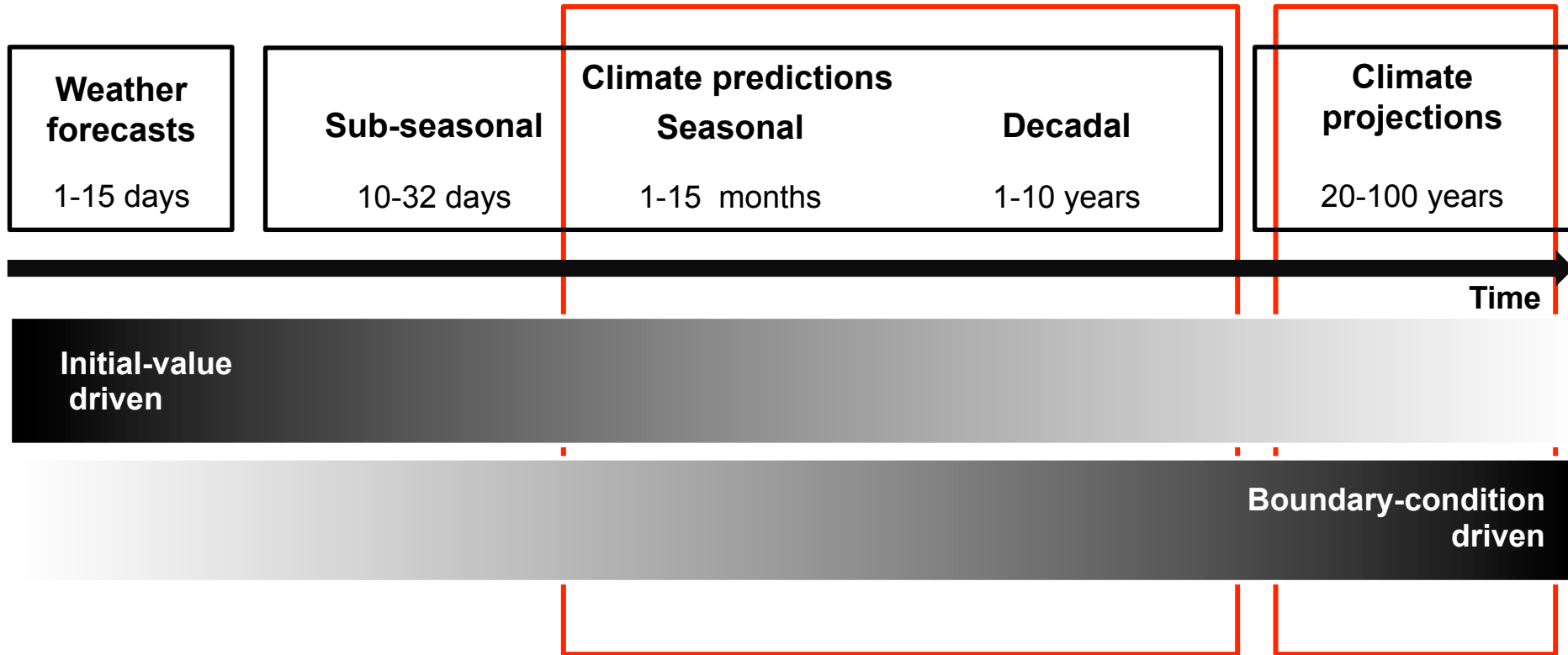




# Common issues to discuss: olive oil, wine, pasta



# Climate information



Adapted from: Meehl et al. (2009)

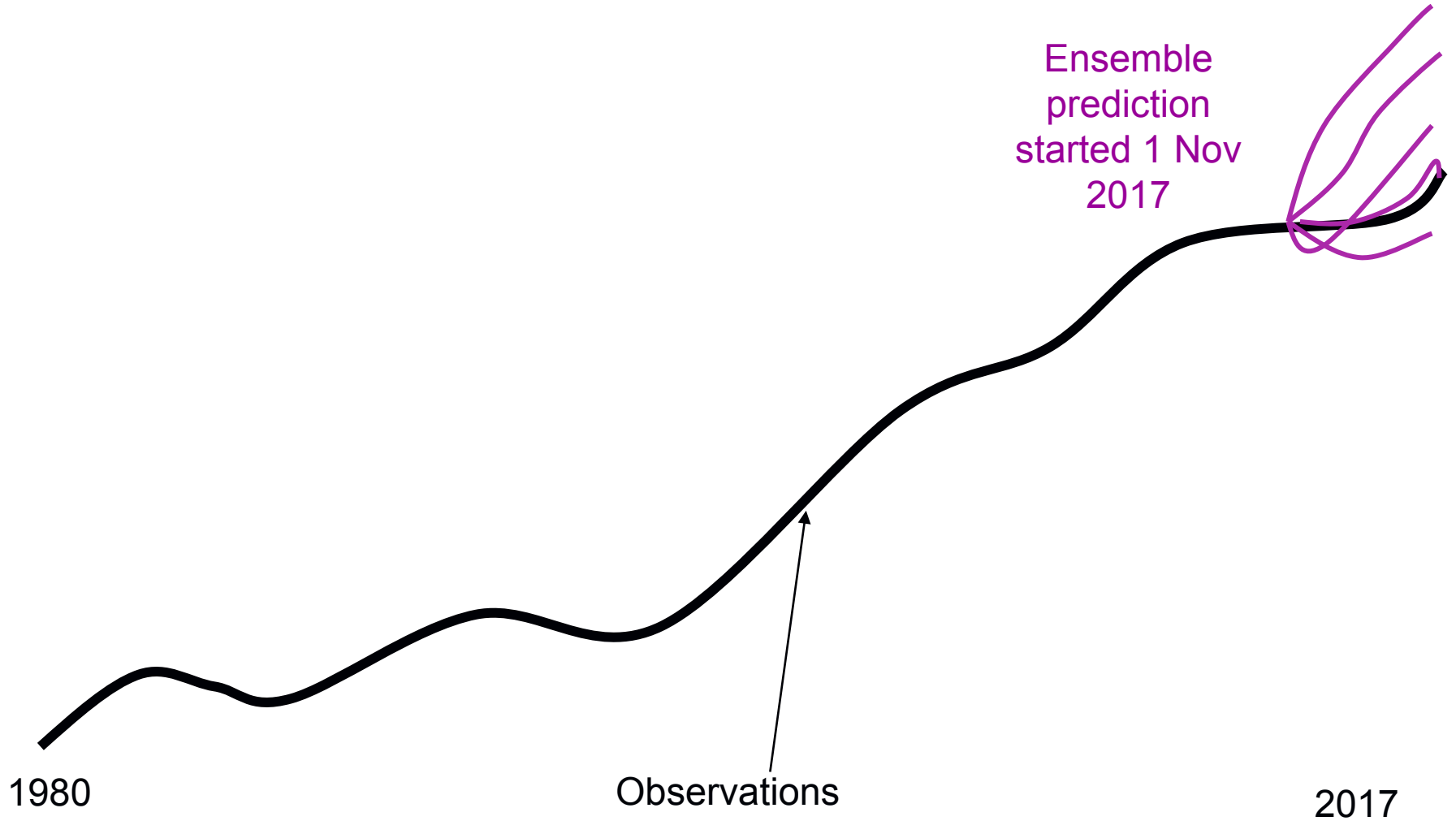


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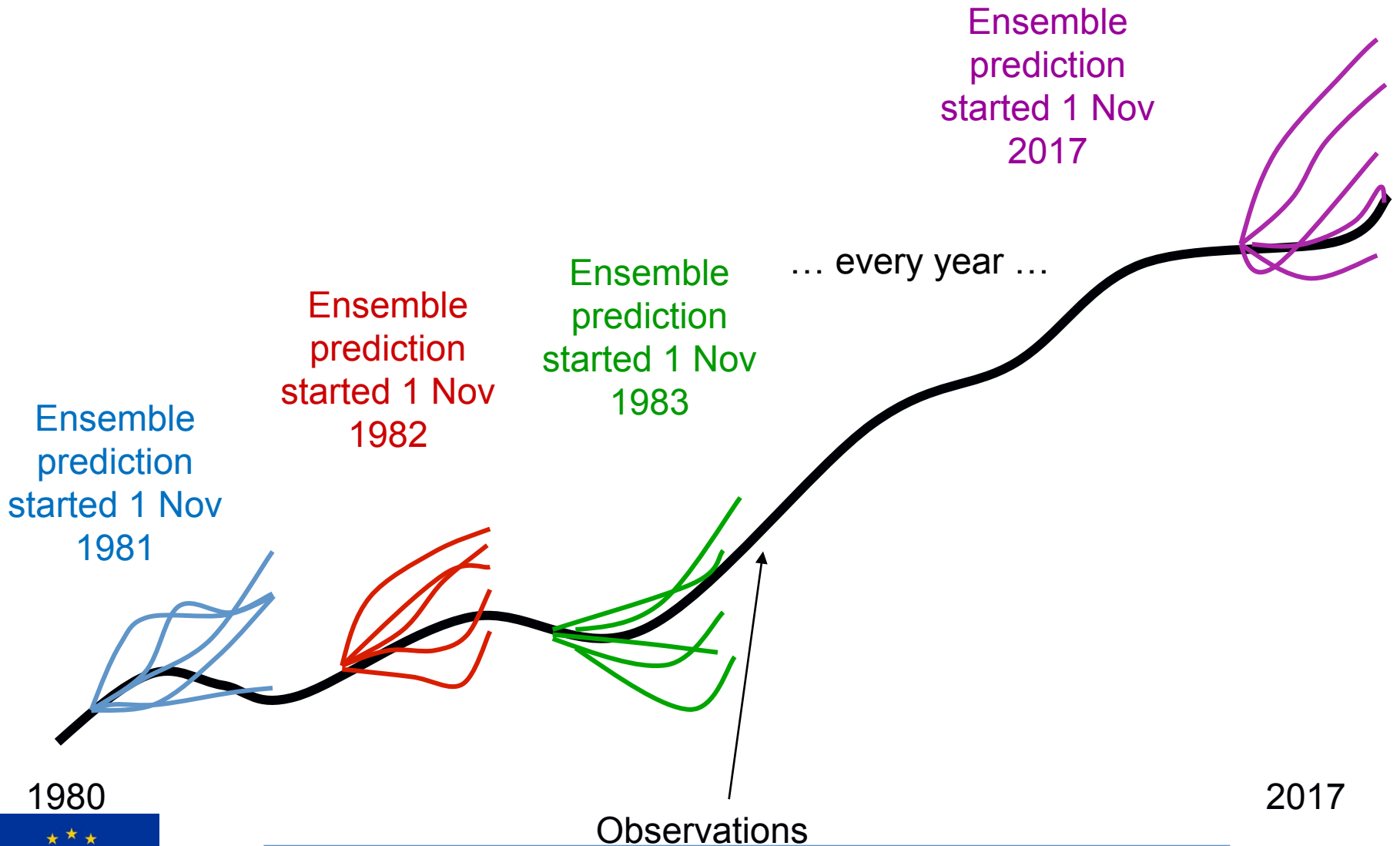
# Climate predictions



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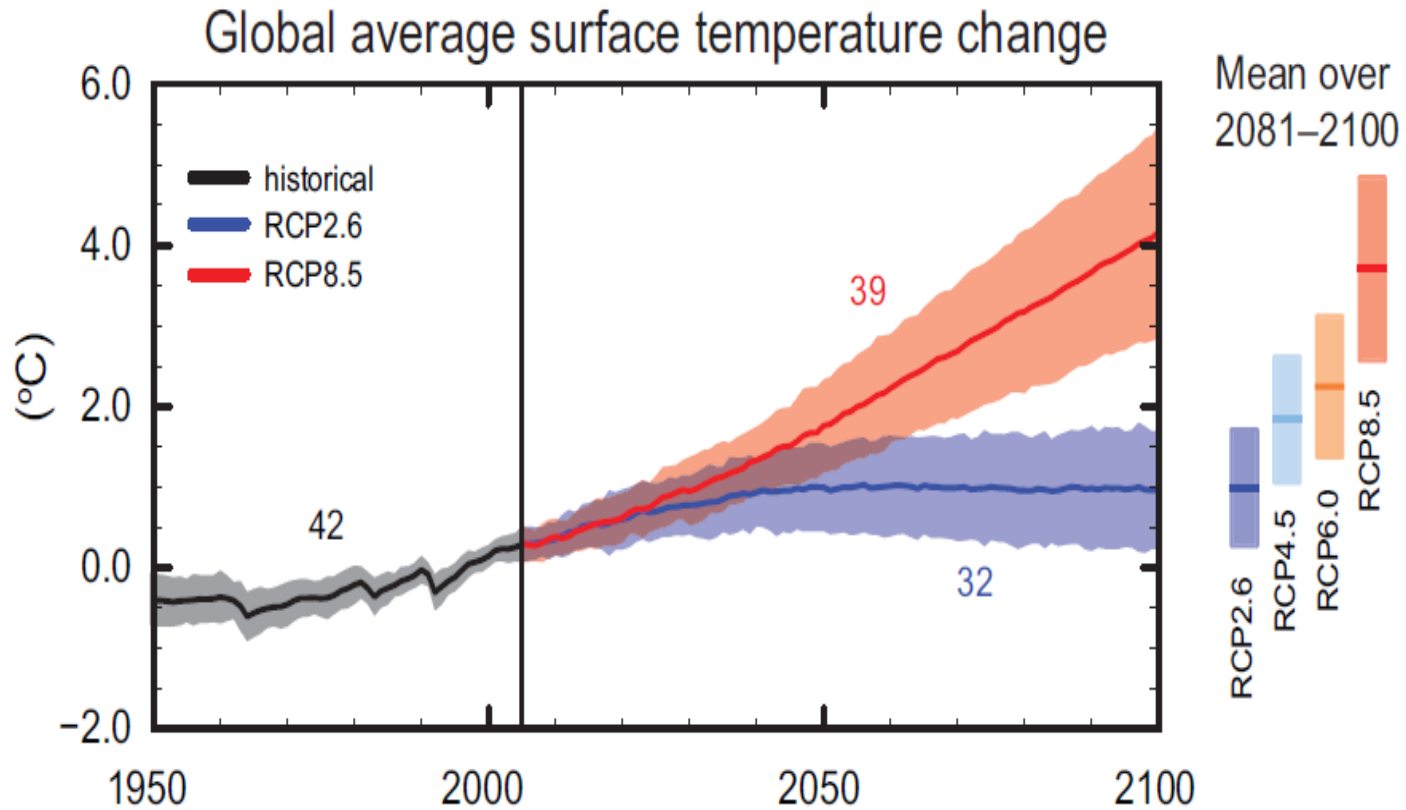
# Climate predictions



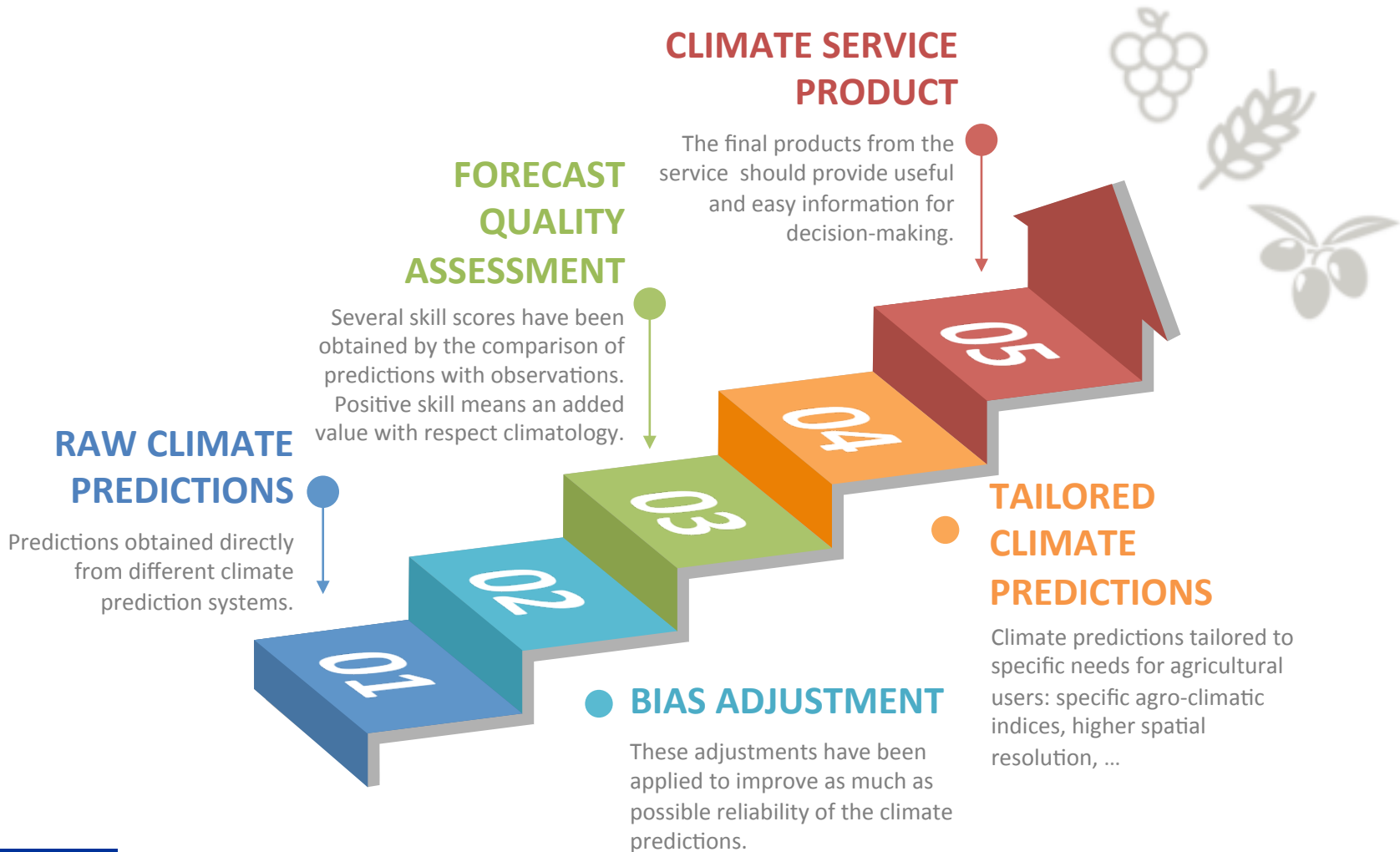
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# Climate projections



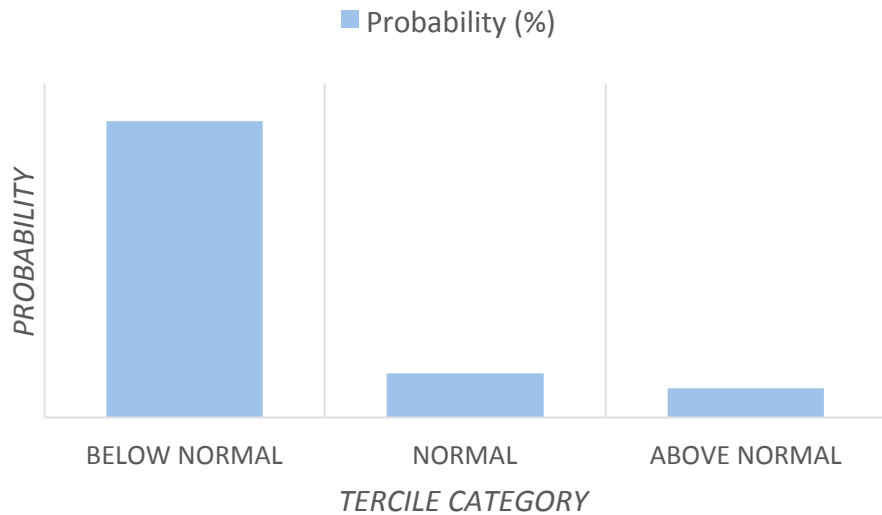
# From climate data to climate services





# How to interpret the seasonal predictions

## TEMPERATURE FOR NEXT MONTH

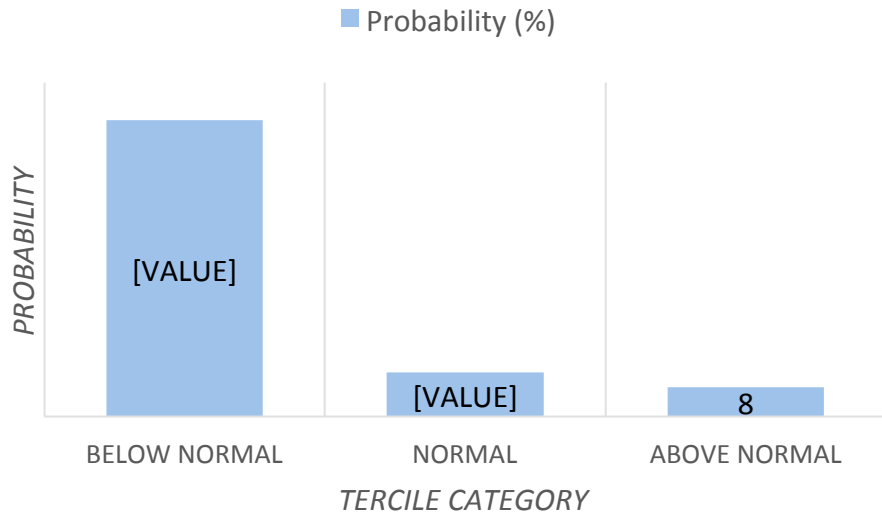


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# How to interpret the seasonal predictions

## TEMPERATURE FOR NEXT MONTH



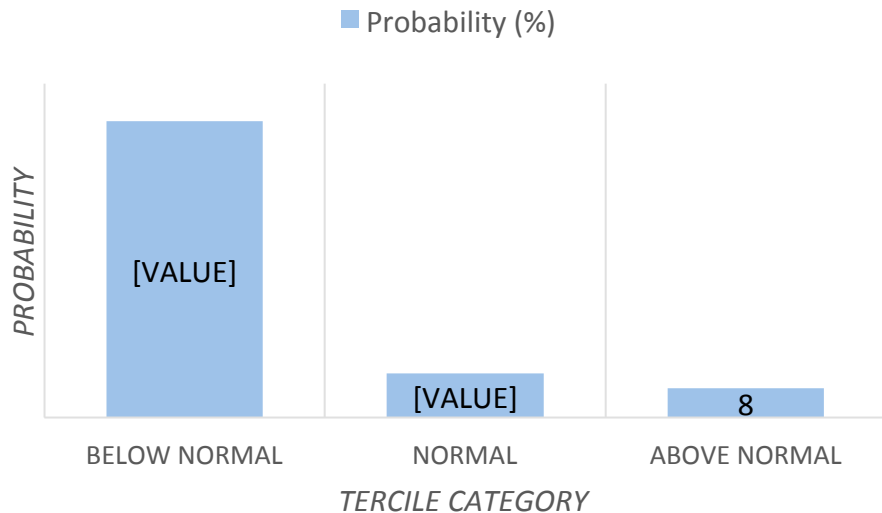
For decision making is important to take into account not only the probabilities but also the skill of the predictions.



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# How to interpret the seasonal predictions

## TEMPERATURE FOR NEXT MONTH



RPSS < 0

RPSS = 0



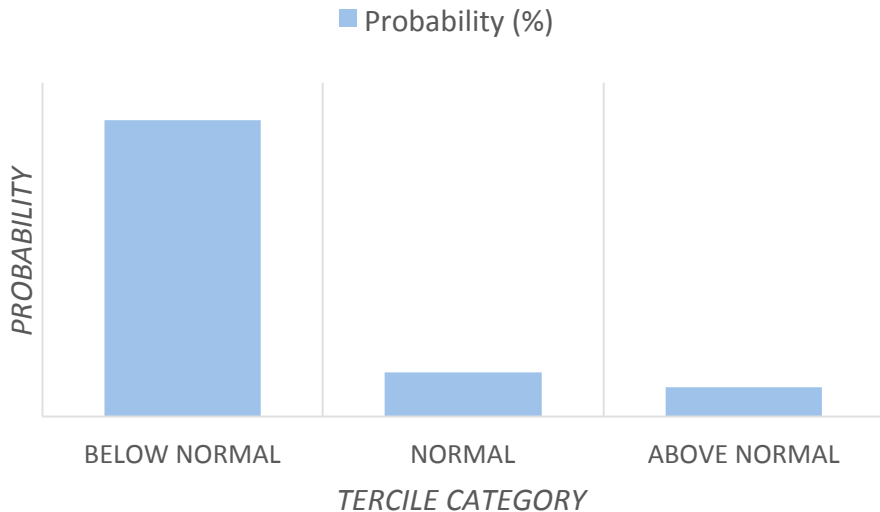
Better to use the observed mean temperature of the past years as a prediction for the future.

For decision making is important to take into account not only the probabilities but also the skill of the predictions.



# How to interpret the seasonal predictions

## TEMPERATURE FOR NEXT MONTH



RPSS < 0

RPSS = 0



Better to use the observed mean temperature of the past years as a prediction for the future.

RPSS > 0



There is an added value of using this seasonal prediction over the use of mean past observations in the long term.

For decision making is important to take into account not only the probabilities but also the skill of the predictions.





# Thank you!

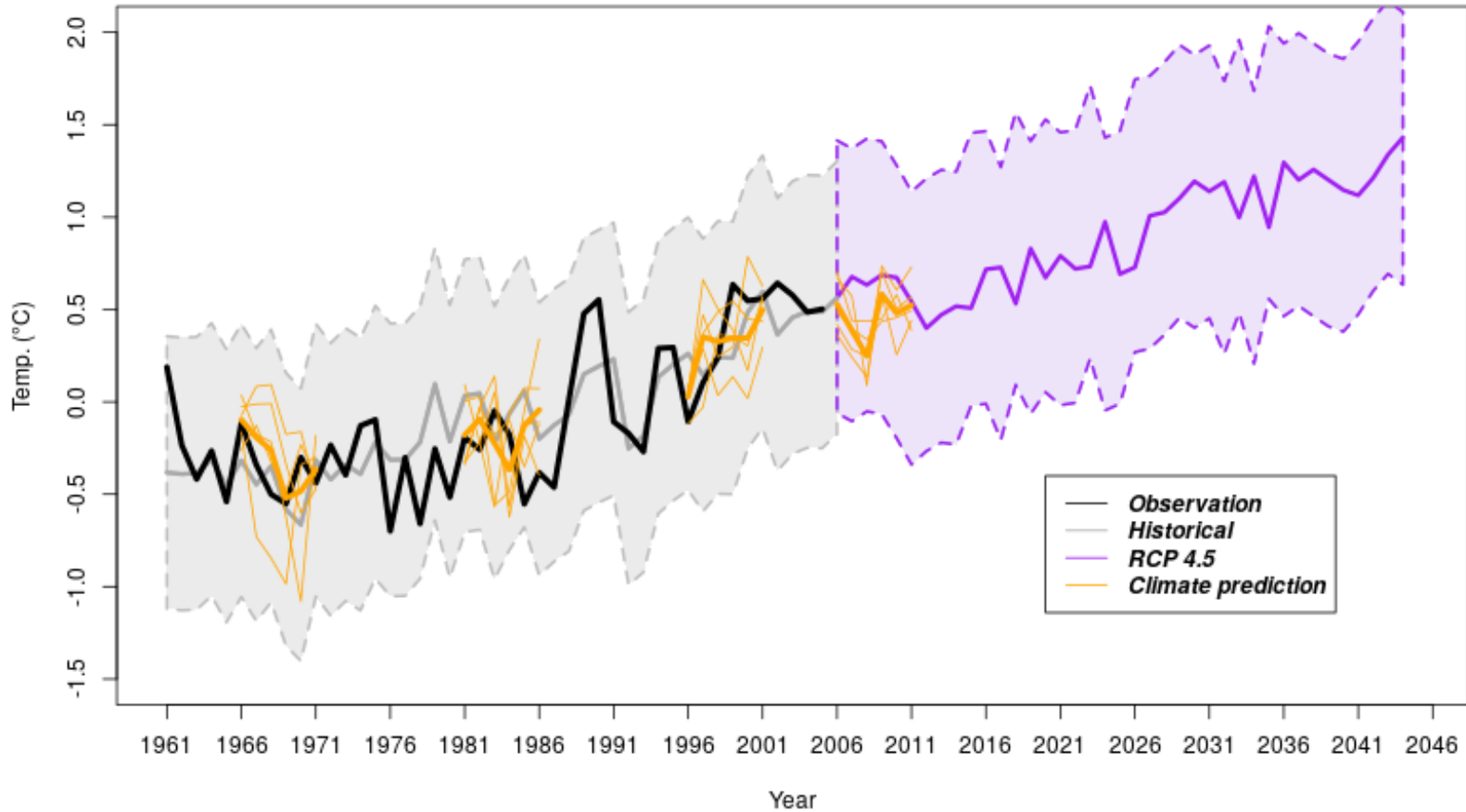


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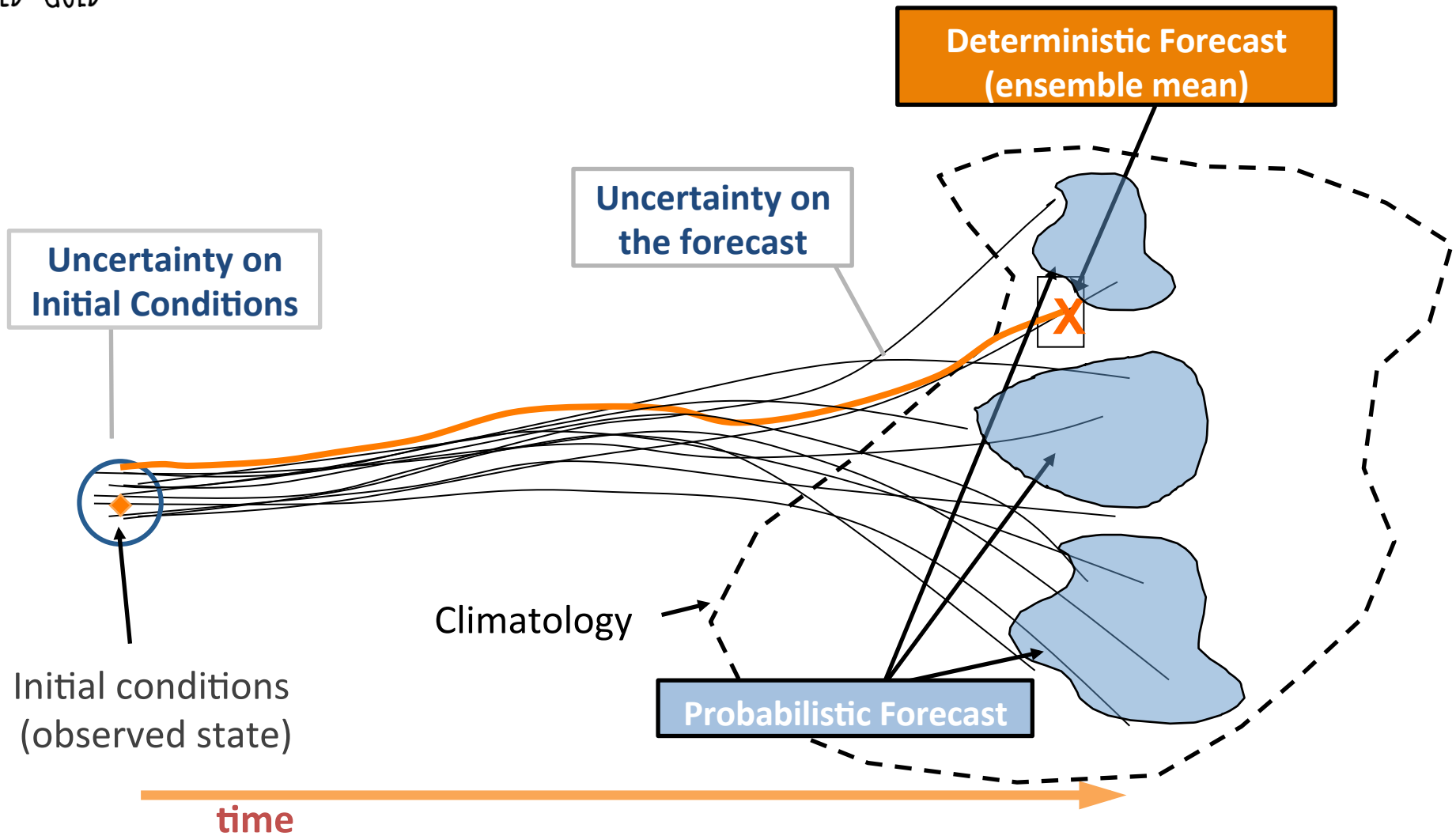
# Decadal predictions vs climate projections

Europe 2 meter temperature anomaly



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# Climate predictions



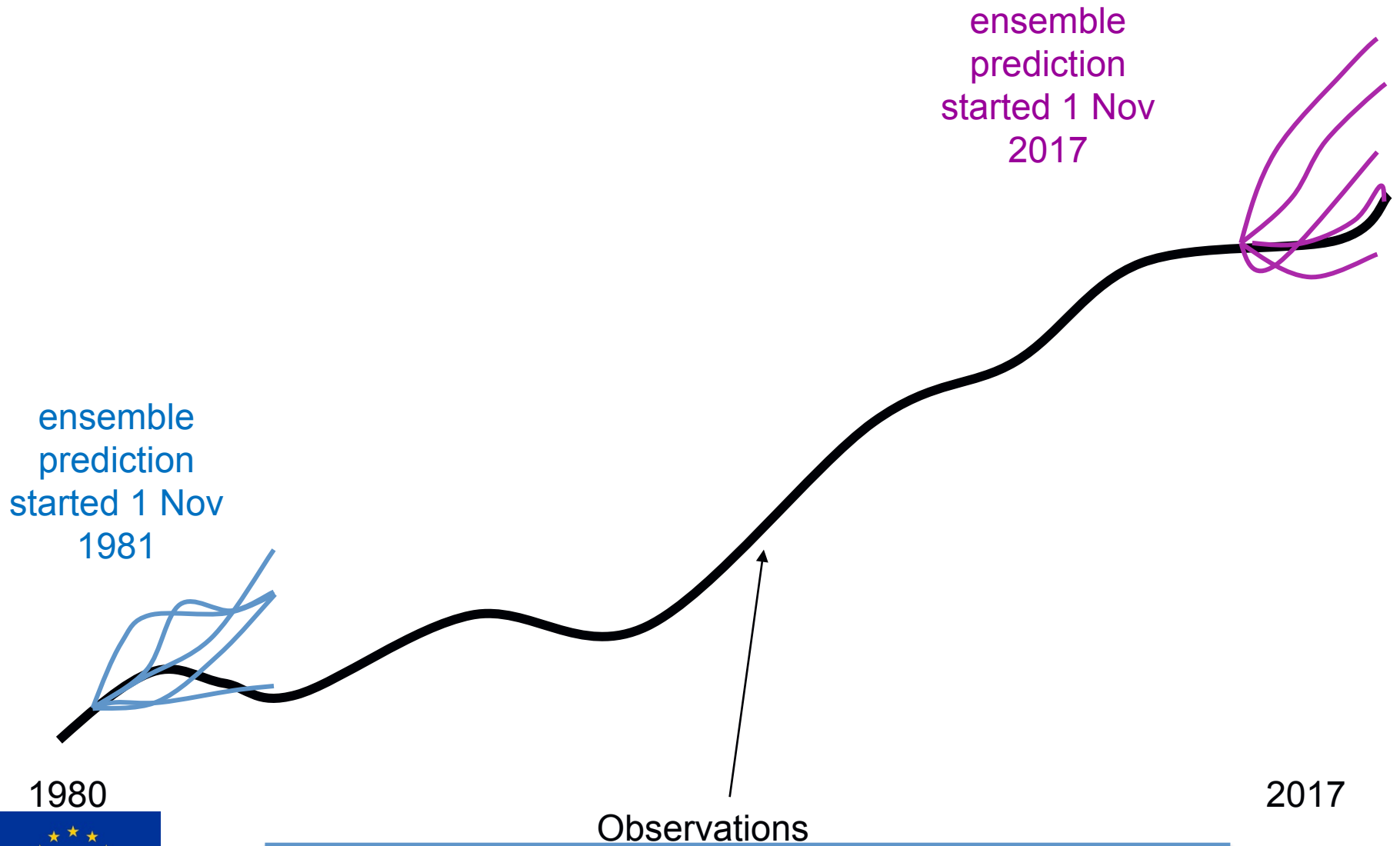
Source: S.Gualdi readapted from Trzaska (<http://portal.iri.columbia.edu>)

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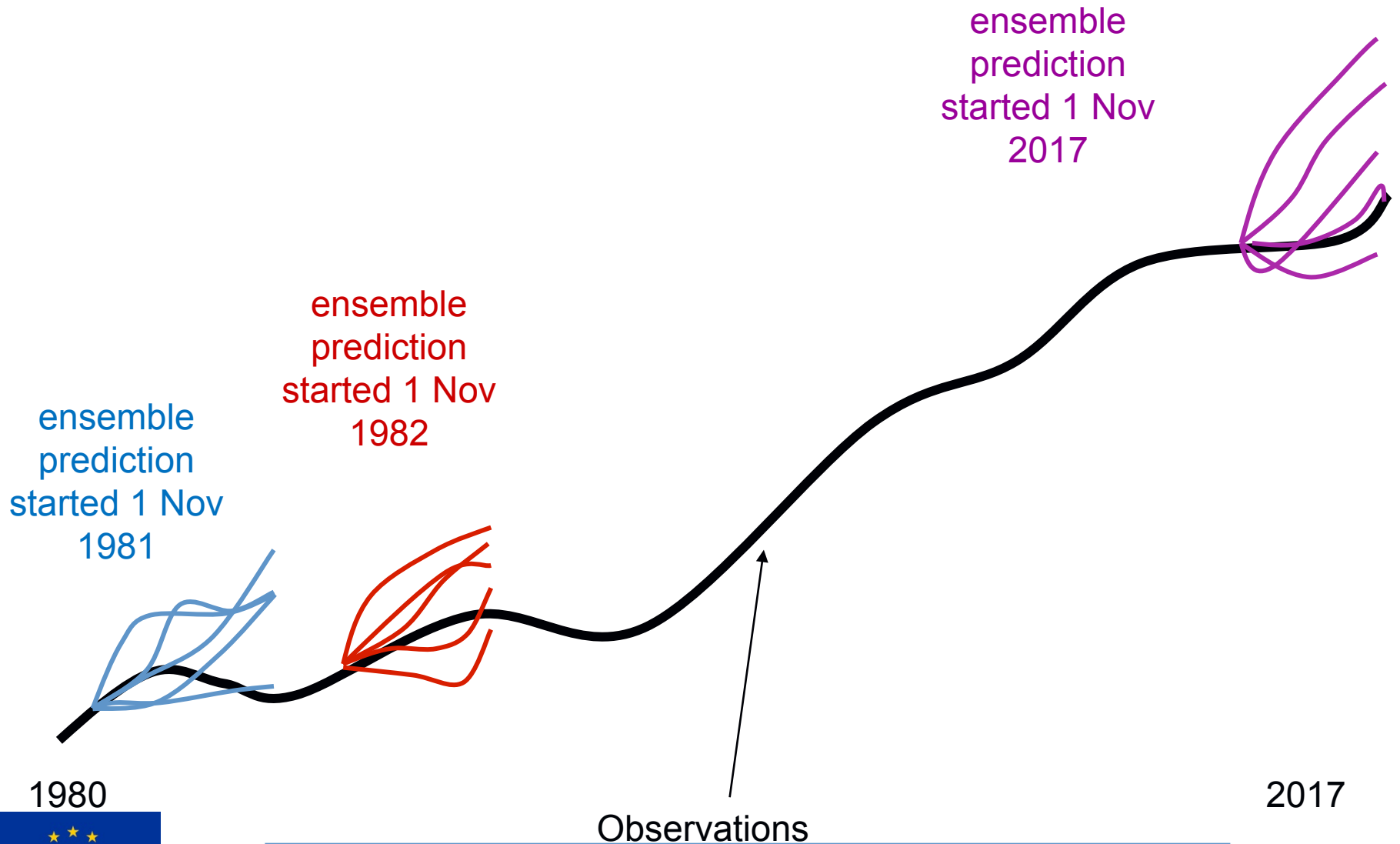
# Seasonal predictions



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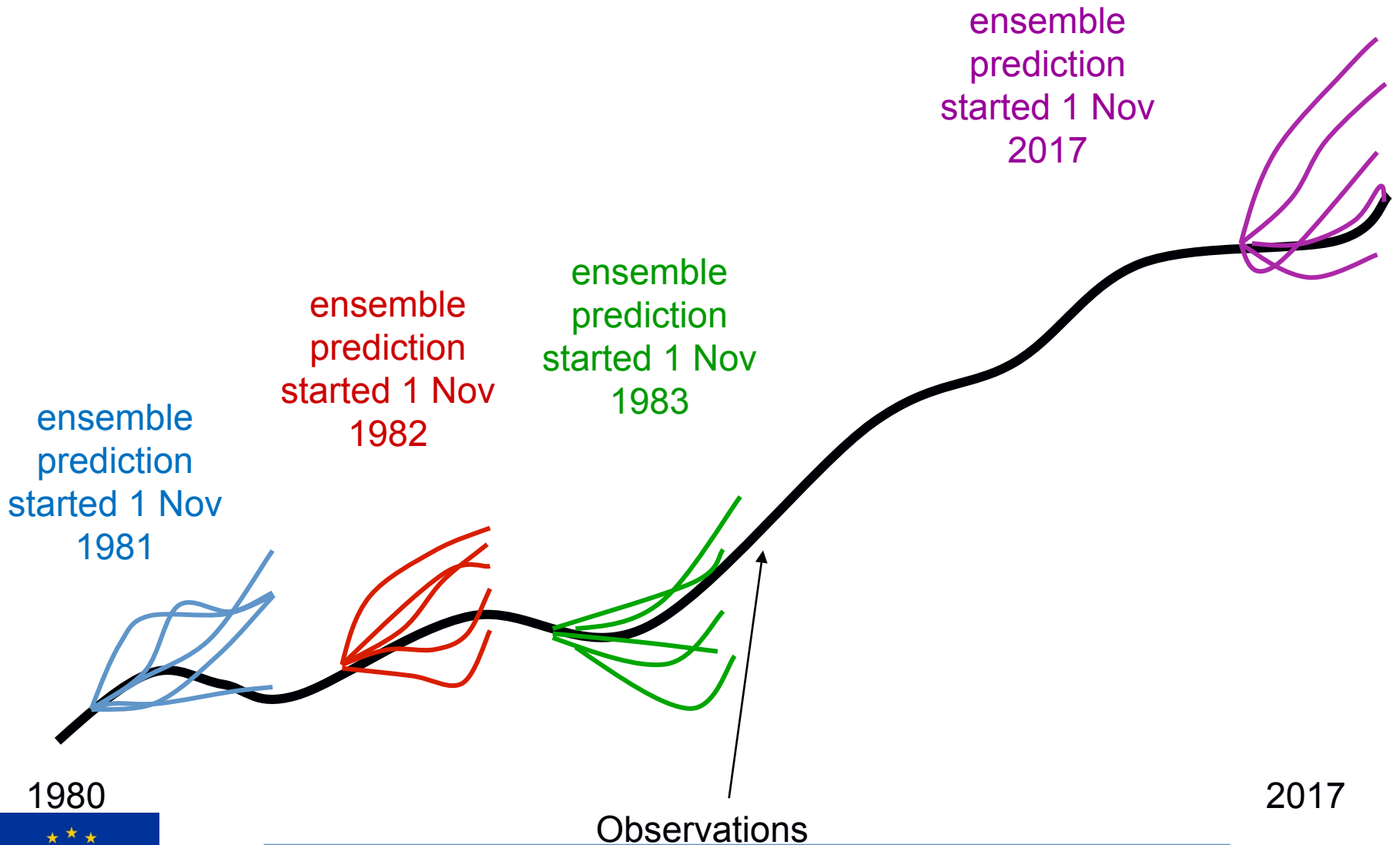
# Seasonal predictions



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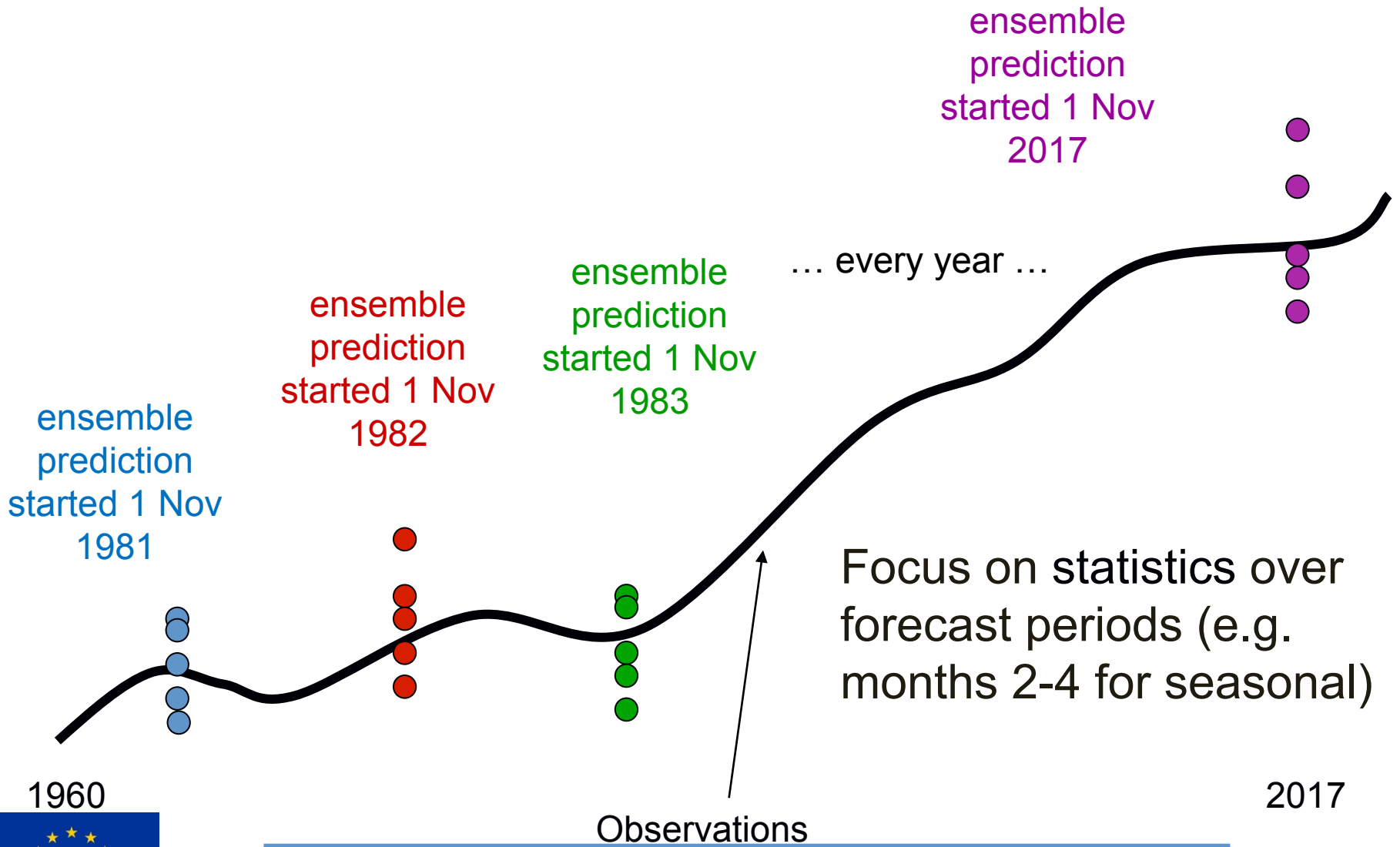
# Seasonal predictions



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# Seasonal predictions



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