

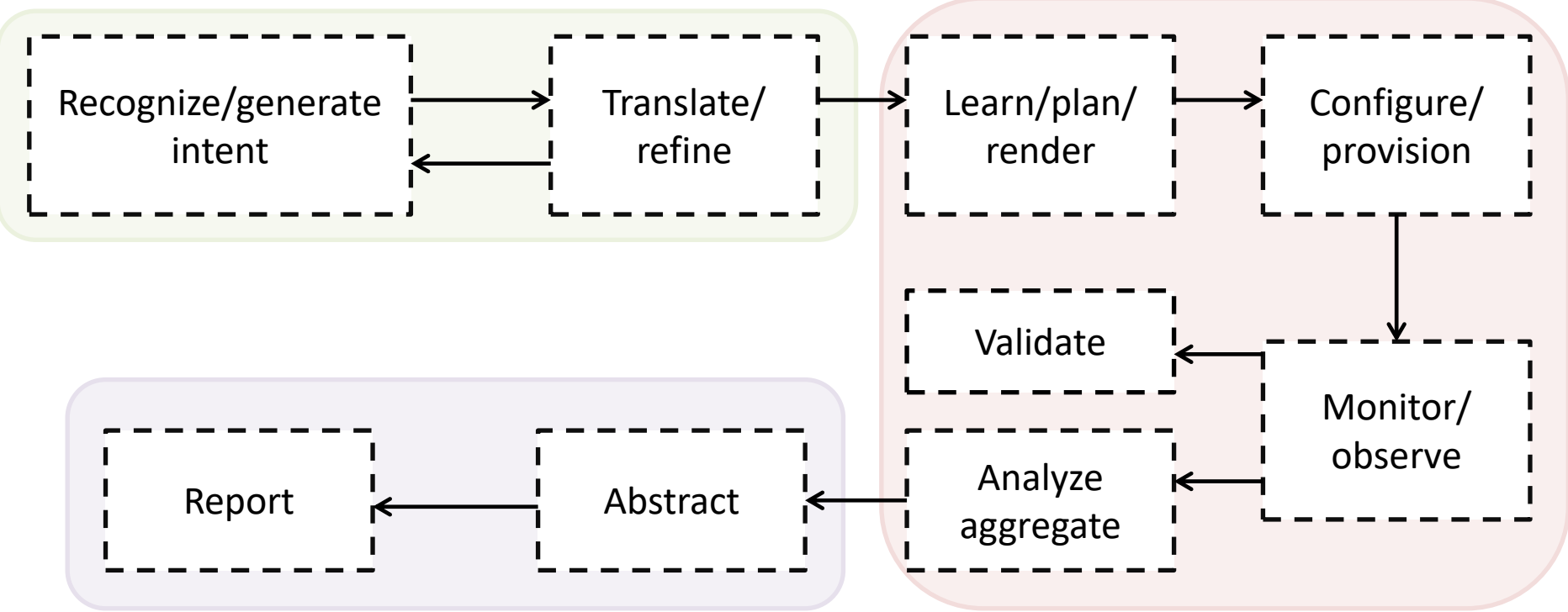
# Network Measurement Intent

draft-yang-nmrg-network-measurement-intent-00

<https://datatracker.ietf.org/doc/draft-yang-nmrg-network-measurement-intent/>

# Intent based network framework

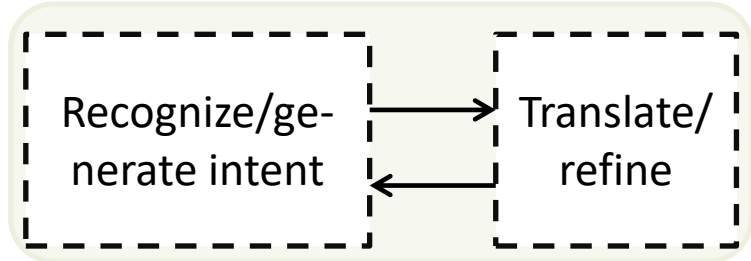
draft-irtf-nmrg-ibn-concepts-definitions-02



# Network measurement intent

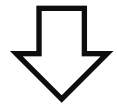
- Based on user/network operator's demand for network status
- Automatic collection of network status information on demand

◆ Taking the performances of busy network measurement intent as an example



- Determine the network busy time of the day based on historical data learned by AI.
- Determine the content need to be measured

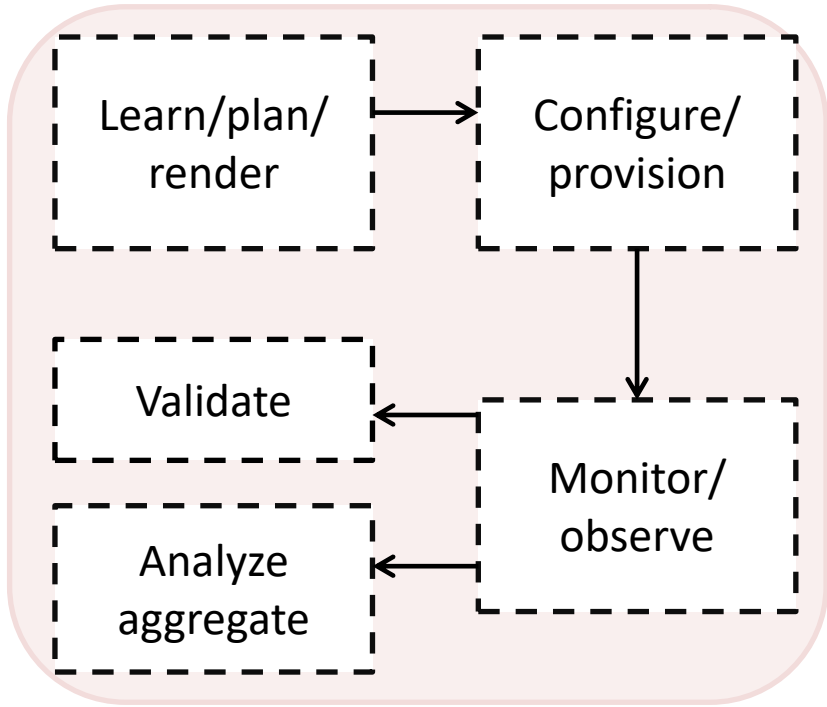
- Based on the required measurement content
- Based on equipment support degree



Determine the measurement

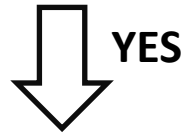


Verify whether the measurement scheme is feasible.



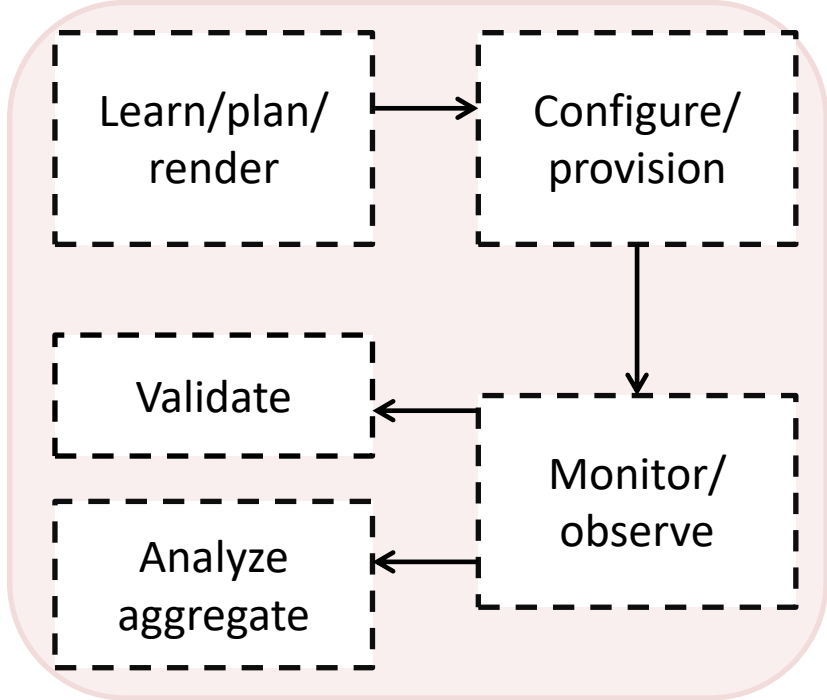
# Network measurement intent

➤ Determine whether the network is busy

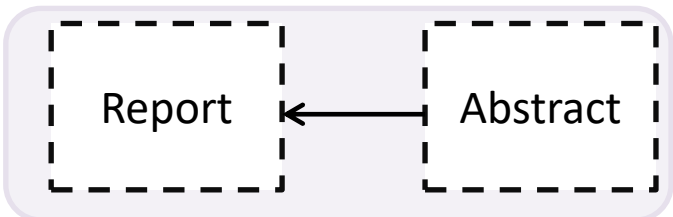


Perform automatic network deployment, such as in CLI mode.

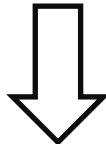
- The network measurement data is collected automatically.



- Verify whether the threshold meets the requirement
- Verify whether the network measurement intent is satisfied



Either of the two conditions is not satisfied



- Report the result
- Modify the network measurement intent

# Benefits

- **Automation:** Realize automatic network measurement and automatic analysis of measurement results
- **Intelligence:** Realize intelligent anomaly detection, anomaly prediction and automatic repair when the measurement result is not in conformity with the expectation
- **Closed-loop control:** Continuous optimization of network measurement results based on network measurement intent

# Next Steps

- To refer IBN reference framework, then update the manuscript and refine the implementation steps in the corresponding functions.
- To work with IBN use case team, then incorporate this case into the coming draft of IBN use case.
- **Looking forward to the comments, suggestions and questions.**

Thanks!