

# #display\_time-series\_diagrams



15: Mein Empfinden von Selbstständigkeit war heute

#### For your information:

As soon as clients have answered process questionnaires (at least two administrations), SNS allows you to use one of its core features, the representation of the data in time-series diagrams. These capture the progress and process of single items and can as such be used for feedback talks, creation of new therapeutic hypotheses and make small accumulating changes over time understandable. Also, daily administration of questionnaires and time-series diagrams form the basis for most types of analysis in SNS, such as recurrence plots, correlation matrices and resonance diagrams.

In order to increase usability of SNS in everyday practice, you will find a quick way, which takes you from the client-overview page (your starting page as a therapist) in just 1 click to the display of a client's data.

However, it is often beneficial to fine-tune the settings of diagrams to your and your client's individual needs. Therefore SNS allows you in the menu-bar "Diagrams" to individually choose all types of diagrams in a detailed version. You can setup a personalized tab under which you can combine a synopsis of a client's data; this tab stays saved and will be accessible upon your next login with all detailed settings and updated with the latest responses of your client.

For more information on types of analysis, please consult the presentations #display\_outcome\_diagrams, #display\_resonance\_diagrams, #display\_recurrence-plots and #display\_correlation\_matrices.





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# Short overview: 2

The first part of the presentation will guide you through the quick (and not so dirty) way of accessing and displaying a client's time-series diagrams:

- 1.1. Navigate to "Overview" in the menu
- **1.2.** Use the drop down bar to chose a client you want to add to your personal overview page
- 1.3. click "ADD CLIENT"
- 1.4. Click on the name of the process questionnaire
- **1.5.** SNS automatically jumps to the menu-bar "Diagrams"
- **1.6.** SNS automatically creates a personalized tab for the default diagram-configuration
- **1.7.** all factors and items are displayed in separate time-series diagrams

The second part of the presentation will now guide you through the detailed way of accessing and displaying a client's time-series diagrams:

- 2.1. Navigate to "Diagrams" in the menu-bar
- 2.2. Click on "+" to add a new tab
- 2.3. Add a (personalized) name to the new tab
- 2.4. Save the tab of the "NEW DIAGRAM-CONFIGURATION"
- 2.5. click on "ADD GRAFIC"
- 2.6. Chose the type of diagram you want to display (here time-series)
- 2.7. choose the desired client(s)
- 2.8. check box to display "raw data" of the items
- 2.9. check box to display also the "commentary" in the diagrams
- **2.10.** check box to display the Dynamic Complexity of each item
- 2.11. superposition of raw items and Dynamic Complexity?
- 2.12. choose "questionnaire" from drop-down
- 2.13. check box to mark "all items"
- 2.14. check box to mark "all factors"
- **2.15.** after you made your specific choice, click on "CREATE DIAGRAMS"



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The first part of the presentation will guide you through the quick (and not so dirty) way of accessing and displaying a client's time-series diagrams:





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• process questionnaires: per respective factor the mean of the first 7 days and the latest 7 days (e.g. TPB-TK)









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# The second part of the presentation will now guide you through the detailed way of accessing and displaying a client's time-series diagrams:

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Data export	2.5. click on "ADD GRAFIC"
Data import	
Settings	





#### The diagram-assistant opens







# Diagrams





#### #display\_time-series\_diagrams

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Chart Wizard



2.8. check box to display "raw data" of the items

2.9. check box to display also the "commentar" in the diagrams

2.10. check box to display the Dynamic Complexity of each item (if yes → define "window-width" and choose confidence intervals)

(see for details on the algorithm the presentation #dynamic\_complexity)

**!!!** The permutation-entropy has not yet been validated empirically within SNS. To prevent misinterpretation, please wait our further notice on the use of permuation-entropy!!!

**2.11.** If you have chosen more than one type, you can choose to display raw data and dynamic complexity combined for each respective item or in separate diagrams.











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You see the display of: blue → raw items orange → dynamic complexity

This new diagramconfiguration will remain available as TAB at your next login to SNS. When re-accessing the TAB, SNS will update the time-series with all new data that has been generated from that client.







Scroll down to the end of page will give you access to the button "ADD GRAFIC". This will open the diagram-assistant again and you can choose to add more diagrams or other analyses to the diagram-configuration at your will. Thereby you can create a synoptic overview of each particular client, in line with your therapyplan and therapeutic hypotheses



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#### Time-series diagrams are 'active':







#### The marks underneath the diagram indicate dates with commentary



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# Click into the frame opens a screen with background information the diagram and additional options.

Keep mouse-button pressed renders the whole diagram moveable (drag&drop)





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## Some general remarks on time-series diagrams

- 1. The high frequent scheduling of questionnaires and resulting time-series is a core ingredient of SNS. It allows for individual monitoring at the pulse of your client, recognizing patterns of all kind of frequencies and rhythms, and forms the basis for analyses derived from complex systems theory (see #create\_resonance\_diagrams, #create\_recurrence-plots and #create\_correlation-matrices).
- 2. The better your theoretical understanding of complex systems, the more you will benefit of the tools in SNS. Please feel free to contact us for more background literature, courses and tips on the topic.
- 3. The overview page in SNS gives you a concise and quick overview over all your current clients.
- 4. All diagram configurations stay saved in their respective tab. Use this function to prepare individually tailored feedback talks, focus on specific aspects of the client, work dynamically throughout the course of a complete therapy or consult and naturally connect sessions with each other.
- 5. SNS works generically and integrates continuously all new data to diagrams.
- 6. Wait for diagrams and other commands to load until you give a new command. That helps to decrease loading times and work smoothly.
- 7. Use SNS as a tool to generate hypothesis you want to test in the dialog with the client. It is by no means replacing any therapeutically relevant aspect of the client-therapist relationship! SNS is a tool that adds some extra information to a therapeutic process and can help to remember states from weeks and month ago.



# Feedback

If you come across problems when creating a time-series diagrams or if the presentation has flaws, misses information or you have suggestions, please do not hesitate to contact us.

SNS is a work in progress and we, you and all clients benefit from all feedback we receive. Feel free to always contact the support under:

benjamin.aas@ccsys.de

Thank you very much!

