

Goals & Design

Primary Goals for the R Package:

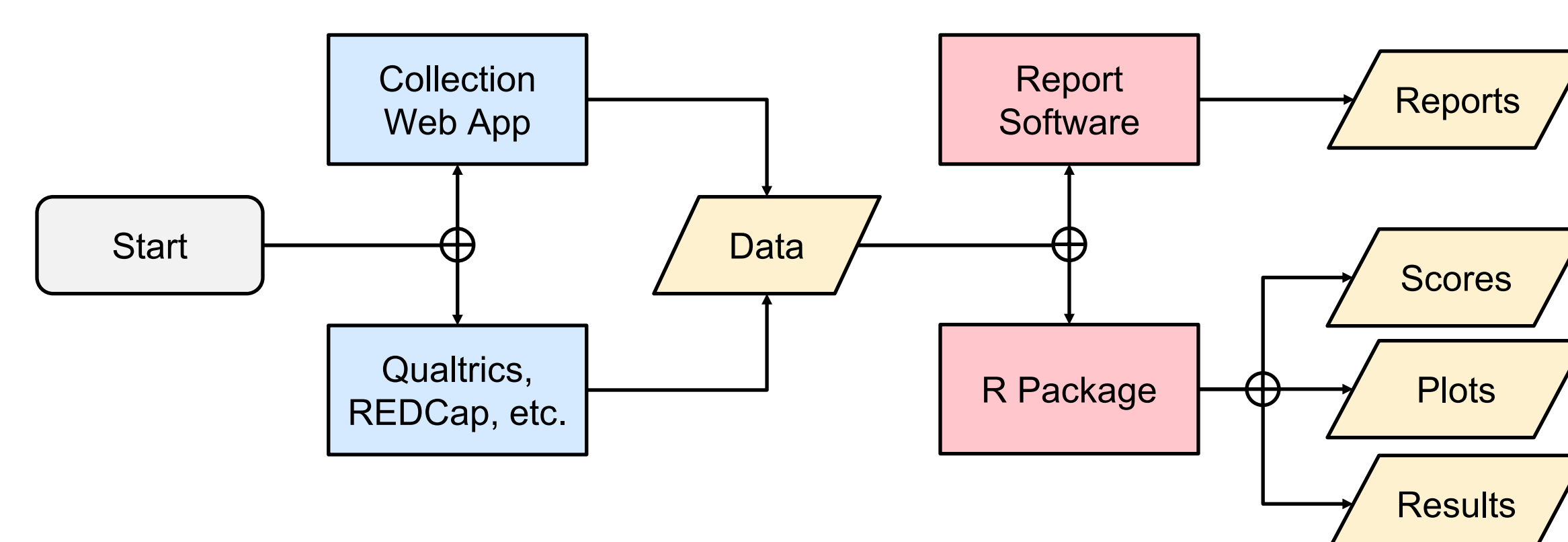
1. Score HiTOP-PRO scales, compare to norms, assess response validity and critical items
2. Implement best-practices for generating scale scores and estimates of uncertainty
3. Ease the creation and customization of data visualizations and other report components
4. Conduct relevant data analysis techniques

Additional Ideas in Development:

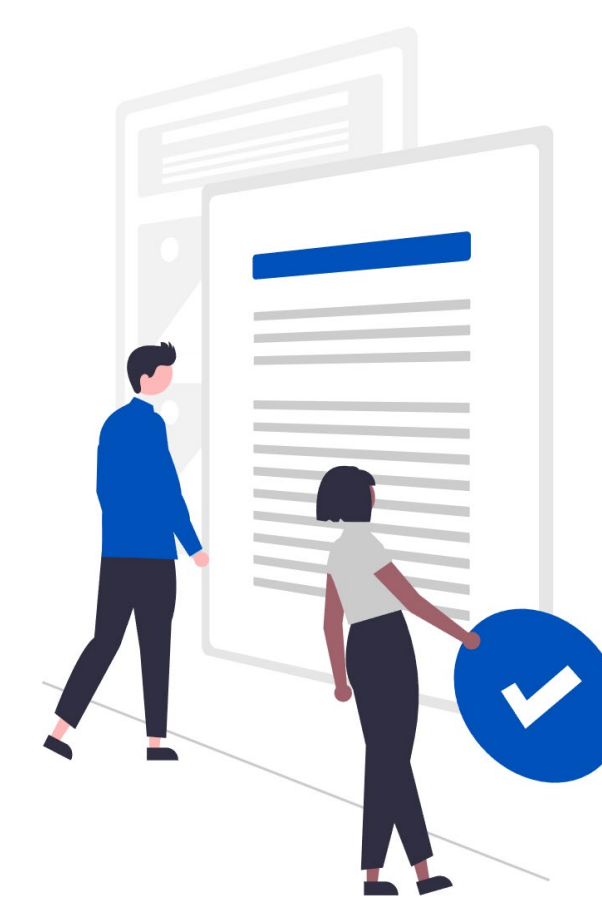
- **Collection Web App:** Collect responses to the HiTOP-PRO for research and clinical uses and store them in a HIPAA-compliant database
- **Report Software:** Import HiTOP-PRO responses and easily create customizable clinical reports

Flowchart for User Experience:

- Data are collected by our web app or other tools
- Clinical outputs are created by the report software
- Research outputs are created by the R package



Report Components



Cover Page and Front Matter:

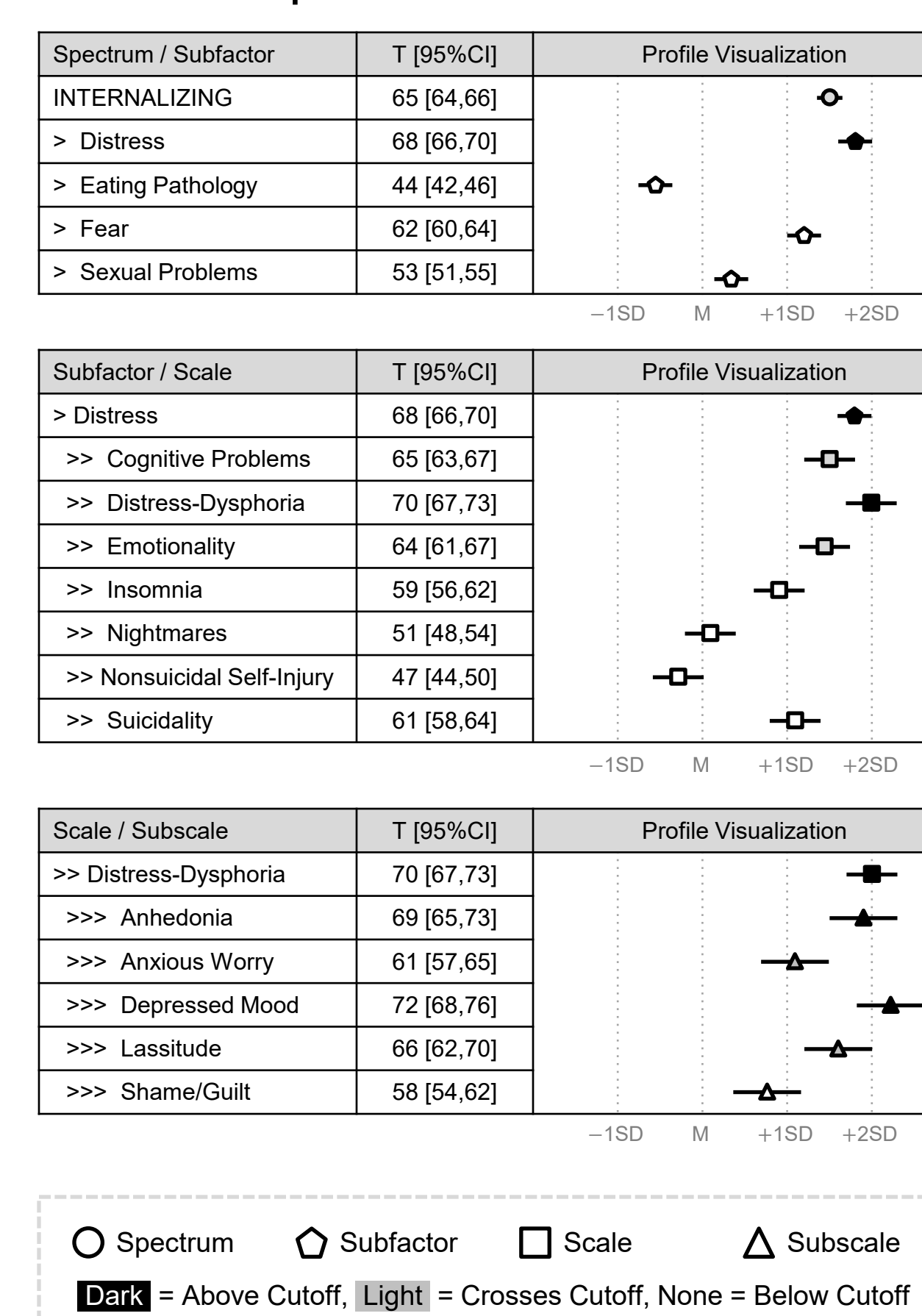
- **General Information:** provide information about the patient, clinician, and clinic; date and time of and reason for the assessment
- **Instrument Overview:** cite the HiTOP-PRO manual and provide psychometric information about its items, scales, and normative data

Summary and Calls to Action:

- **Validity Considerations:** flag missing data, response inconsistency, overreporting, and underreporting (once scales are developed)
- **Critical Items Endorsed:** highlight extreme and concerning items/scales (e.g., suicidality)
- **High-level Summary:** at-a-glance view of spectrum scores and elevated subfactors



Mock-up of Hierarchical Profiles



Detailed Results Modules:

- **Low-level Details:** provide tables and visualizations with relevant scores and interval estimates
- **Interpreted:** scores are given context in comparison to norms and clinical cutoffs (e.g., T65)
- **Hierarchically Organized:** scores are presented per level of the hierarchy and visual cues orient viewers to each level
- **Customizable:** user can change normative data, types of scores (e.g., T, standard, or percentile), and modules to include or omit

Principles & Input

Report Design Principles:

- **Accuracy:** provide information that is precise, validated, and transparent about its uncertainty
- **Relevance:** present only the information that is needed and emphasize the critical elements
- **Clarity:** present information in a straightforward and understandable manner while minimizing jargon
- **Consistency:** maintain uniform formatting, use of terminology, and structure/organization throughout
- **Hierarchy:** leverage the structure of the HiTOP model to provide insights of varying specificity

Current Project Questions:

- a) How do you use clinical reports in practice?
- b) Would you use our web app to collect data?
- c) Would you prefer an *interactive* web-based report or a non-interactive *printable* version?
- d) What *customization* options do you want?

Broader Workgroup Questions:

- a) What software (e.g., automation) needs do you have related to HiTOP research and practice?
- b) What else do you want the R package to do, e.g., what analyses, visualizations, or tasks?
- c) Do you have feedback for the HiTOP website?
- d) How else can the workgroup support you?

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