

Communimetrics Data Roundtable

Describing Populations: The Needs & Strengths Profile, and Polar Graph



Agenda

- Dan Warner Ph.D. Introductions to the Standard Reports & Invitation to present *your organization's data* at the **October 2nd** Pre-Conference Visualization Exchange
- Dan Warner Ph.D. – Deeper Dive into the Needs Profile and Strengths Profile to understand a program
- Anna Didoni & Antonella Di Troia from Policlinico of Milan to discuss Polar Graphs of Populations



Praed Reports Suite

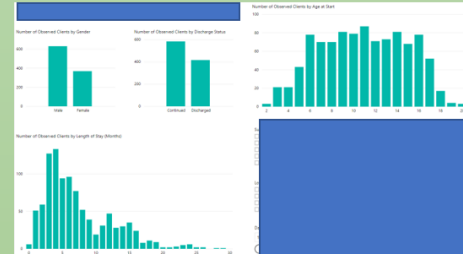
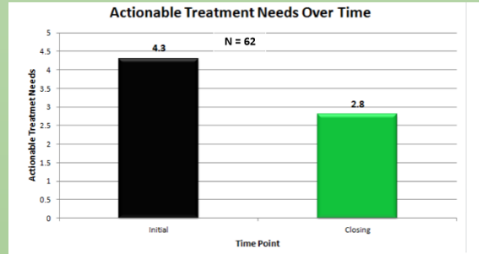
- There are now a vast amount of TCOM implementations
- The Praed Reports Suite 2.0 has standards for how to display the information so that we can compare our projects to others.
- Every TCOM software should be able to do these
 - *(You can also often do them in Excel!)*



TCOM Report Suite:
Minimum Standards for Vendors and Systems
Version 2.0

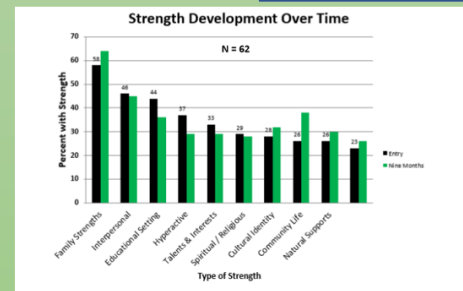
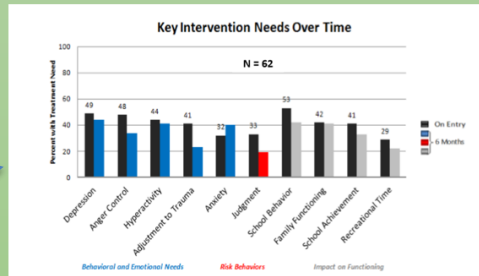
A TCOM “Program Profile”

Average
Impact



Demographics

Needs
Profile



Strengths
Profile

Narrative explaining the program, agency or system under review. Explaining if the reports are TOOL level or INDIVIDUAL LEVEL, and any other pertinent information.

Narrative, Details, Background,
“Meat on the bones”

October 2nd, Pre-Conference Visualization Exchange

- Participants will organize their TCOM data into the Program Profile, and bring it to share with others.
 - Get a sense for how your program compares to others.
- If you have data, but do not know how to visualize it, reach out to me! (dwarner@communitydataroundtable.org). In most cases, we can help you get something together for the exchange.
- People will need to sign up early, and a pre-registration form will come around.
- Also, please note, that if you want to share your data in another form, or have another poster idea, the Convention wants those too! Poster deadline is not yet passed, please submit!

Deep Diving into the Needs Profile

(Aka “Multi-Level Collaborative Formulation”,
Aka “Key Intervention Needs Over Time”)



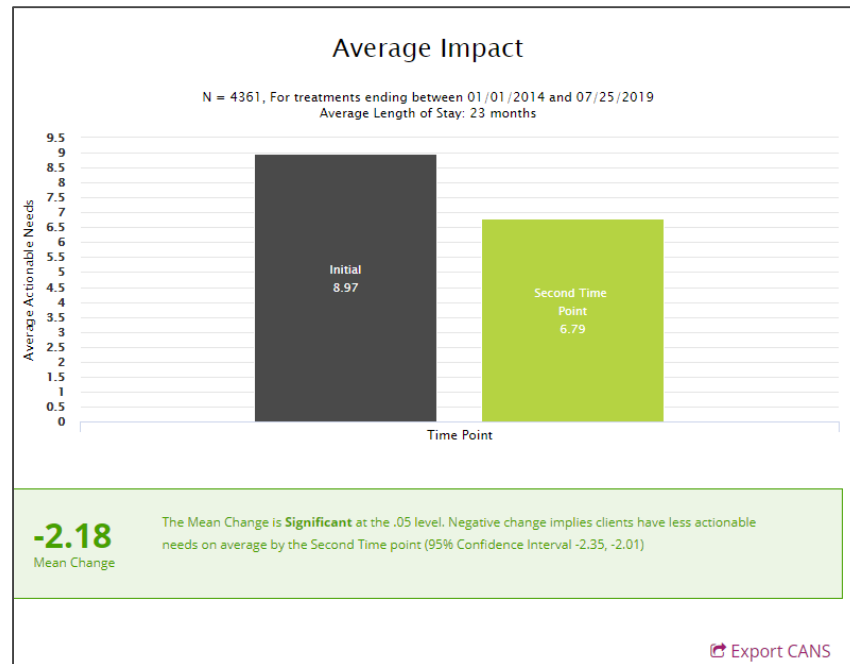
Some questions to start us thinking?

- How is it helpful (and ... perhaps confusing) to include “Ever” in the graph)?
- What is the lead item? & what is its actionability rate initially?
- How many risk items, and what are they?
- What are the contours of actionability rates from Initial, through Continued, through Discharge?
-



BHRS in Pennsylvania

- Children aged 5 – 21
- Target population: Externalizing symptoms that risk placement
- Target population: children with significant ASD symptoms (aka, ABA)
- Behavior technicians work 1-on-1 with child onsite, under supervision by master's level technician

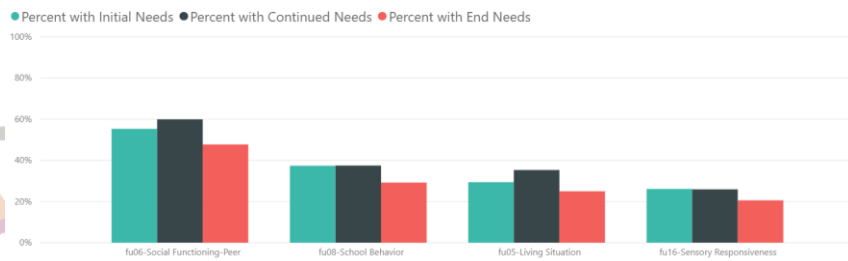


Program Intensity Comparisons

Severity 1 & 2 (“Low”)

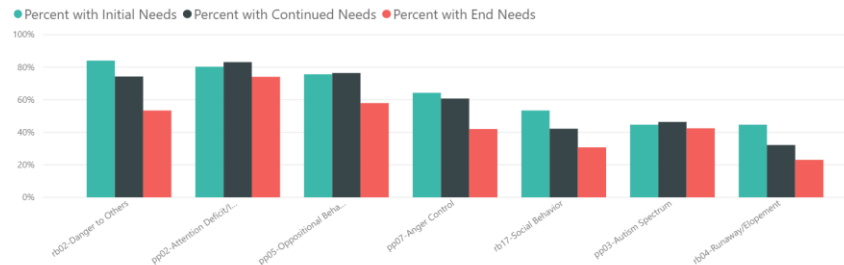


Needs Profile & Outcomes (Functioning)

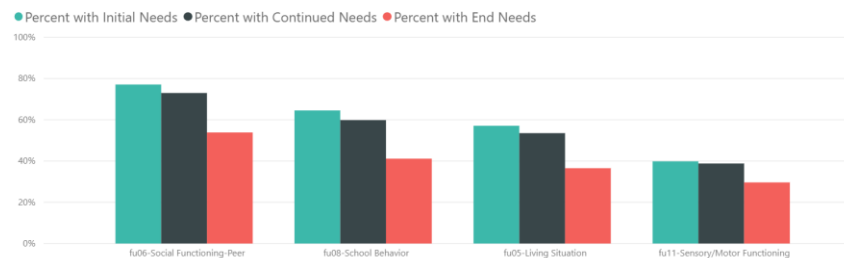


Severity 3 & 4 (“High”)

Needs Profile & Outcomes (Problem Presentation and Risk)



Needs Profile & Outcomes (Functioning)



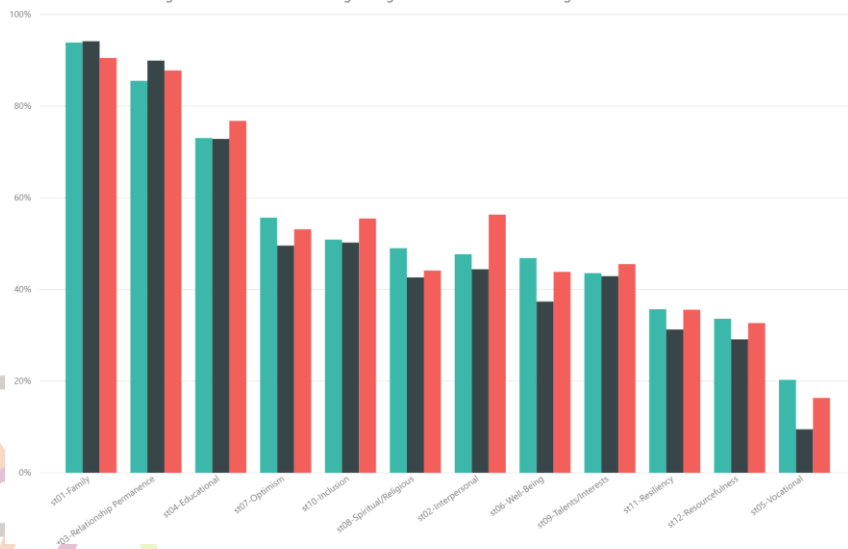
Program Intensity Comparisons

Severity 1 & 2 (“Low”)

Severity 3 & 4 (“High”)

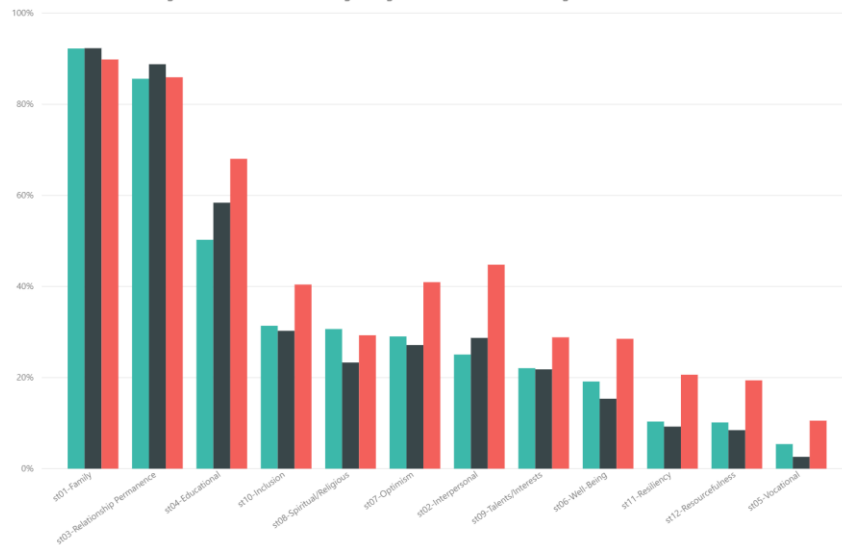
Strengths Profile & Outcomes

■ Percent with Initial Strengths ■ Percent with Continuing Strengths ■ Percent with End Strengths



Strengths Profile & Outcomes

■ Percent with Initial Strengths ■ Percent with Continuing Strengths ■ Percent with End Strengths



Dealing with the “dramatic” nature of behavioral healing

- Things get worse sometimes before they get better
- Factors outside of our control change all the time





Fondazione IRCCS Ca' Granda
Ospedale Maggiore Policlinico

Sistema Socio Sanitario

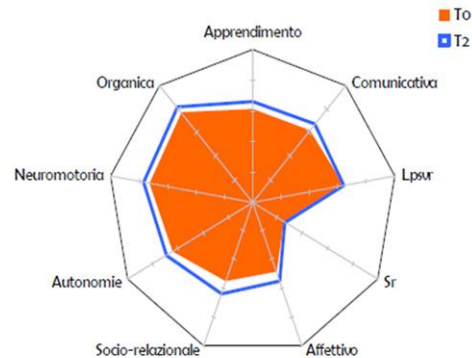


Regione
Lombardia

A way to share CANS data POLAR GRAPHS

Starting point

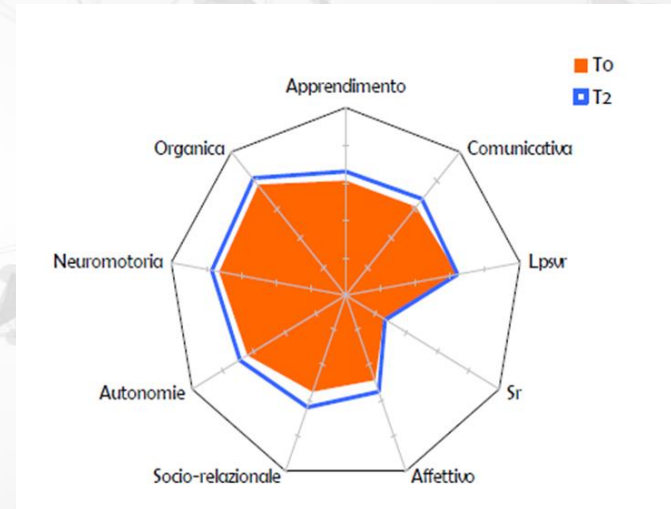
An idea emerged during a research on the outcome evaluation:
combining CANS and the Polar Scheme
(used by the Zancan Foundation and the Lombardy Region ADHD project)



Polar Scheme and zoom approach

Polar Scheme (Fondazione Zancan): Multidimensional assessment – Needs and strengths global vision.

Polar Scheme shows both
Problems (needs) and Abilities (strengths).
The full area shows functioning level: the greater the full area the better the functioning.



**Polar scheme is centered on the child,
to obtain a global view and to represent
child and parent link.**

Polar scheme has been created to represent them together.

ZOOM evaluation stands for...

Zooming on
Outcome and
Output
Measures

Zancan

The logic pathway of our model

Questions for facilitating decisions

From the polar scheme, do we recognise needs and strengths?

Looking at needs and strengths from the polar scheme, which goals can we identify?

How can you reach those goals?

Which specific interventions are we going to provide (in order to reach those goals)?

For each intervention, can you describe the change in terms of wellbeing?

For each intervention, how can you measure the outcomes (the expected change you are going to reach)?

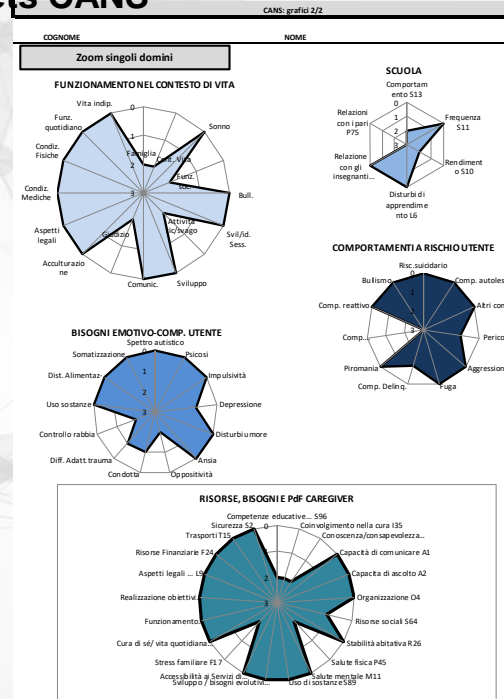
For each observable factor, can you specify the present measure and the expected measure?

Fondazione E. Zancan

CANS polar graphs

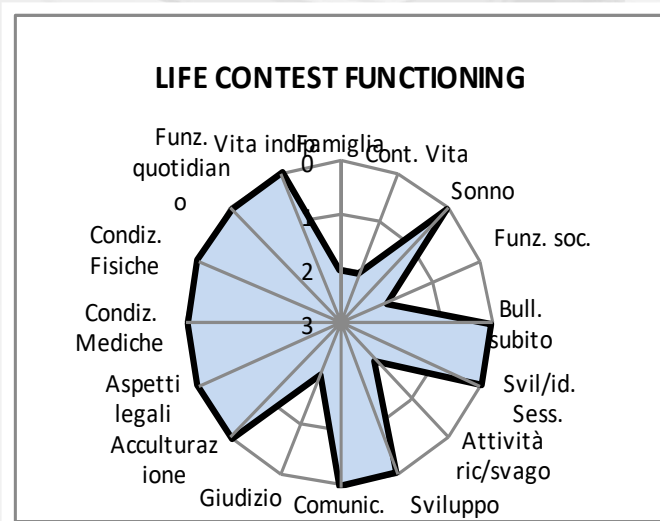
Polar scheme meets CANS

RISULTATI CANS 5-17									
N° di Carta		Michele							
Data di nascita		02/04/03							
Data Compilazione CANS		05/10/17							
Diagnosi principale (ICD10)		MD							
72 tempo amministrativo		0							
CONDIZIONE NELLA VITA		Condizione gestore							
Condizione gestore		NO							
Condizione minore		NO							
Evidenza abuso d'uso		NO/0/18							
RISORSE, BISOGNI E POF del Caregiver		1) Presenza veduta 2) Presenza veduta 3) Presenza veduta 4) Presenza veduta							
FUNZIONAMENTO NEL CONTESTO DI VITA		Vita Indip. 0 1 2 3 Funz. quotidiano 0 1 2 3 Condiz. Fisiche 0 1 2 3 Condiz. Mediche 0 1 2 3 Aspetti legali 0 1 2 3 Acculturazione 0 1 2 3							
SQUADRA		Coordinatore S1 Assistente S2 Infermiere S3 Psicologo S4 Fisioterapeuta S5 Farmacista S6 Nutrizionista S7 Logopedista S8 Assistente sociale S9 Assistente sociale S10							
PUNTI DI FORZA DELL'UTENTE		1) Presenza veduta 2) Presenza veduta 3) Presenza veduta 4) Presenza veduta							
BISOGNI EMOTIVO-COMP. UTENTE		Somatizzazione 1 Dist. Alimentare 2 Uno sostanze 3 Controllo rabbia 4 Diff. Adatt. trauma 5 Condotte 6 Oppositività 7							
BISOGNI, BISOGNI E POF CAREGIVER		Competenze educative... S96 Sicurezza S2... Trasporti T15... Risorse Finanziarie F24... Aspetti legali... L15... Funzionamento... Cura di sé/ vita quotidiana... Stress familiare F17... Accesso alla cura... Sviluppo / bisogni voluttuari...							

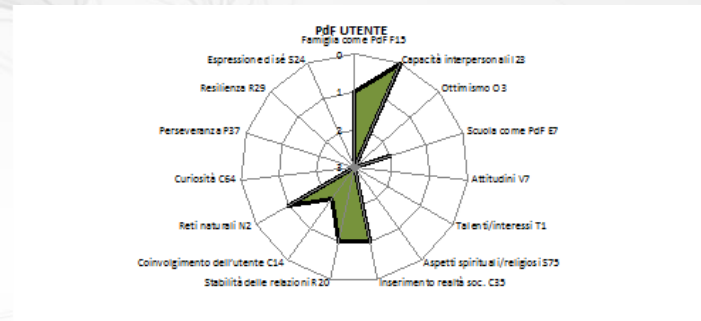


- The emptiness tells need's levels
- The full tells there is no need
- The emptiness tells strengths absence
- The full tells strengths presence

The polar scheme meets CANS (1)



- **The emptiness tells need's levels**
- **The full tells there is no need**



- **The emptiness tells strengths absence**
- **The full tells strengths presence**

How to summarize the profile

Representing all domains together showing need's levels

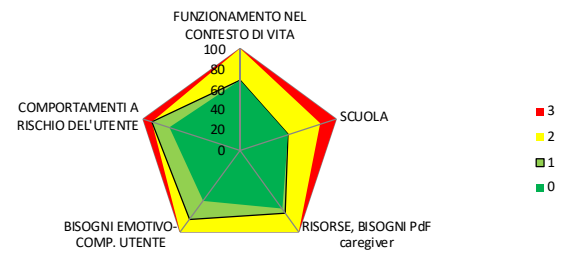


facilitate an overview of the child / young person and his/her context.

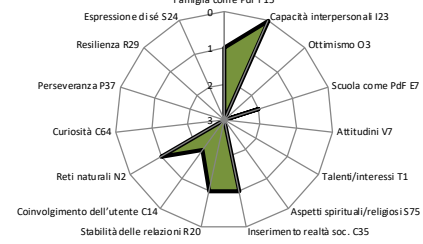
Using percentage distribution of the score levels within the need domains.

COGNOME		NOME			
N° di Cartella	Michele	Diagnosi principale	F00.0		
Data Compilazione CANS	01/10/17	T (somministrazione)	0		
INDICI CANS					
Punteggio tot. CANS (somma):	40	Bisogni attivi (% 2,3):	25,9		
Accordo PDF/bisogni con famiglia:	SI				
Scadenza licenza d'uso:	30/6/18				
DOMINIO : % richiesta di intervento (count 2, 3)			PdF		
FUNZ. CONTESTO	SCUOLA	RISORSE, BISOGNI Caregiver	BISOGNI EMOTIVO-COMP. UTENTE	COMPOR.T.A RISCHIO	Presenti tot. (% 0,1):
31,3	50,0	23,8	15,4	9,1	33,3

Profilo di sintesi domini



PdF UTENTE

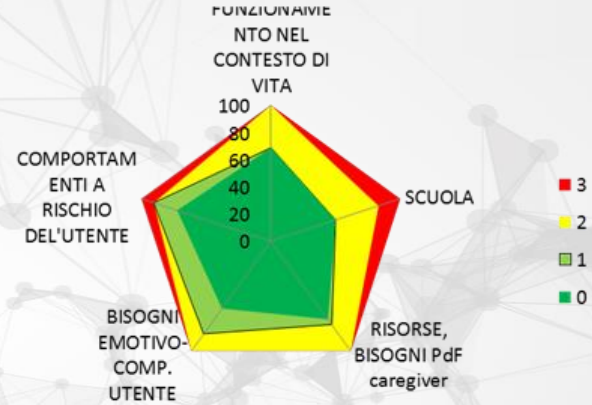


A TRAFFIC LIGHT!



- 3 – action immediate/intensive**
- 2 – action required**
- 1 – monitoring/prevent**
- 0 – No evidence/no need**

NEEDS



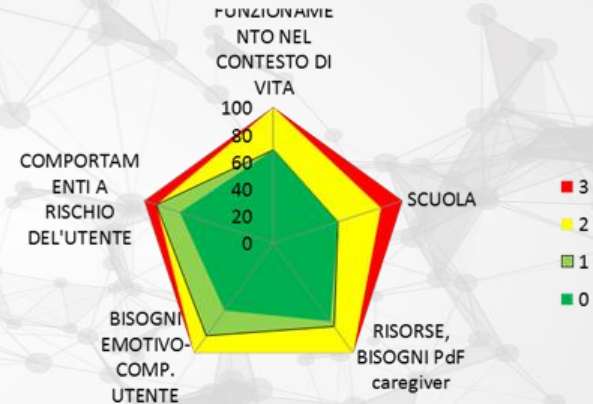
Data table with distribution percentage is always provided.

SUMMARIZING TITLE PROFILE

Radar chart summarizes all the domains in an integrated way.

Domains' numbers of items are different.
Percentage distribution of the levels of need is necessary to integrate them.

The axes indicate the accumulate percentages
(in the center of the graph we have 0%,
on the outer edge 100%).



NEEDS

Data table with distribution percentage is always provided.

Single case representation

	Synthesis	Single domain	Strenghts
Single case graph			
Single case representation's purpose	<ul style="list-style-type: none"> • Overview of the presence of needs and their level • Clinic: in communication with children and families • Research / scientific communication: single-case representation 	<ul style="list-style-type: none"> • To zoom in every single domain and to see where actionable needs are. • Clinic: in communication with children and families • Research / scientific communication: single-case representation 	<ul style="list-style-type: none"> • Visualize the presence of the strengths and their relevance, always separately from needs. • Clinic: in communication with children and families • Research / scientific communication: single-case representation

The green area of the synthesis and the full of single domain graph, both suggest "no need".

the «3» migrates from the center of the single domain graph to the edge of the synthesis graph to be consistent with our communication pattern.

(and the emptiness, represented here by yellow and red, tells the level of need).

**Lack of strengths is not presence of needs
we keep them separate**

Population radar graphs

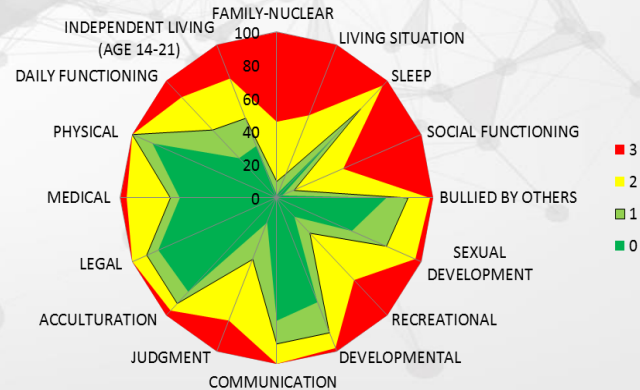
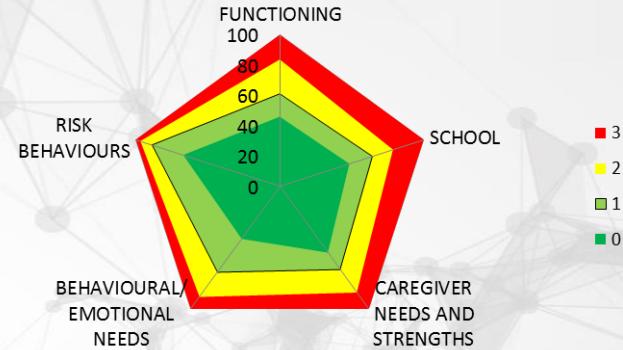
In the representation of the population it was decided to use the pentagon for the representation of synthesis such as the single case.

Percentage distribution of need levels is used also in single domains graph.

We maintain our communication pattern avoiding the average issue (not suitable for CANS)

Data table with distribution percentage is always provided.

SYNTHESIS



Population strengths

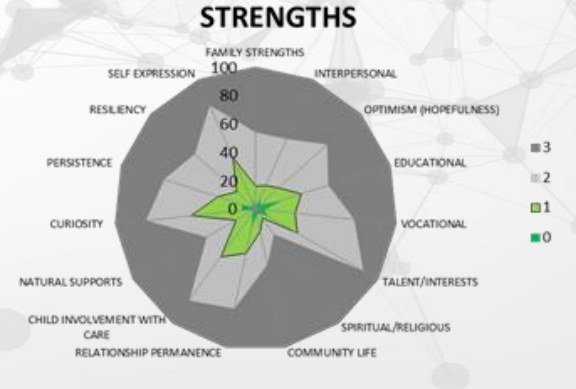
Shades of green show resources presence, preserving here the concept of emptiness as “lack”

We use shades of gray for to show the resources absence.

- 3 – No Strength Identified
- 2 – Identified Strength.
- 1 – Useful Strength.
- 0 – Centerpiece strength



STRENGTHS



Data table with distribution percentage is always provided.



Single case vs population

	Synthesis	Single domain	Strengths
Single case graphic			
Single case representation's purpose	<ul style="list-style-type: none"> • Overview of the presence of needs and their level • Clinic: in communication with children and families • Research / scientific communication: single-case representation 	<ul style="list-style-type: none"> • To zoom in every single domain and to see where actionable needs are. • Clinic: in communication with children and families • Research / scientific communication: single-case representation 	<ul style="list-style-type: none"> • Visualize the presence of the strengths and their relevance, always separately from needs. • Clinic: in communication with children and families • Research / scientific communication: single-case representation
Population			
Population representation's purpose	<ul style="list-style-type: none"> • An overview of the presence of needs and their level • Research / scientific communication: representation of distribution levels of need in the population (%) 	<ul style="list-style-type: none"> • To zoom in every single domain and to see where the level of actionable need is placed • Research / scientific communication: representation of distribution levels of need in the population (%) 	<ul style="list-style-type: none"> • Visualize the presence of the strengths and their relevance, always separately. • Research / scientific communication: representation of strengths distribution in the population (%)

Longitudinal representation - population

population	T 0	T 1	
Domain synthesis	<p>Profilo di sintesi domini</p> <p>FUNZIONAMENTO NEL CONTESTO DI VITA</p>	<p>Profilo di sintesi domini</p> <p>FUNZIONAMENTO NEL CONTESTO DI VITA</p>	Comparing the needs level distribution across the domains and visualizing the change
Strengths	<p>PdF utente</p>	<p>PdF utente</p>	comparing the trend of the presence of strengths over time
Single domain	<p>Caregiver</p>	<p>Caregiver</p>	Comparing the trend of the presence of needs over time by zooming within the single domain



ITALIAN TCOM TEAM

Antonella Costantino

Stefano Benzoni

Anna Didoni

Antonella Di Troia

Anna Parascenzo

Francoise Peronace

Special thanks to

All the “Policlinico” colleagues

Our national collaborators
- Among them: Minotauro,
Mito&Realtà

**INTERNATIONAL TCOM
TEAM**

John Lyons



**THANKS FOR YOUR KIND ATTENTION
GRAZIE DELL'ATTENZIONE!!!**

Thank you!

See you at TCOM Convention (October 2 – 4)

