

Building AI responsibly for mental healthcare





A workspace for therapists to provide effective and efficient care



WNICEDAY



84 million

350.000

People in EU with mental health problems / year

[source: oecd]

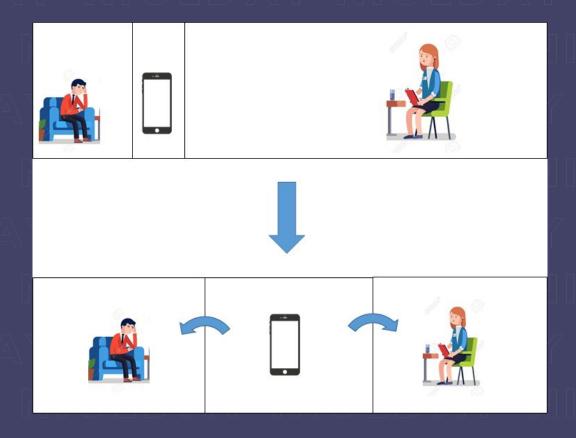
Registered psychologists in EU

[source: EFPA]



MICEDAY

#### Make mental healthcare more cost-effective and efficient

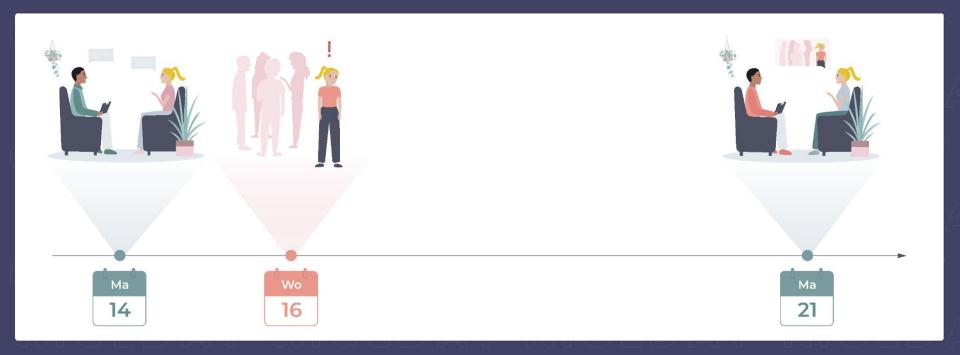








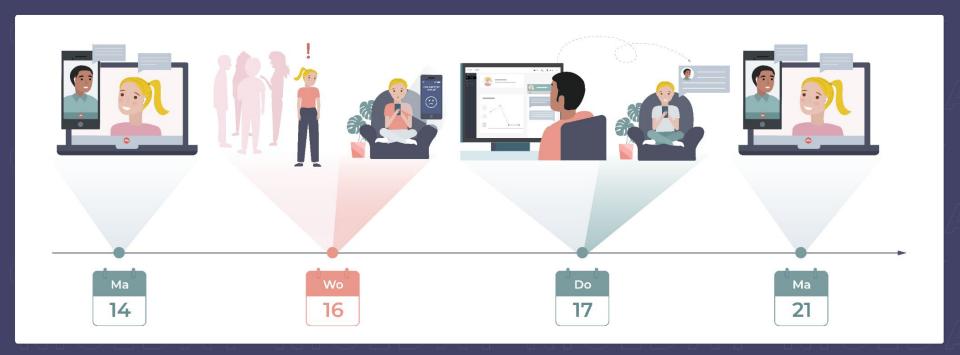
### **Traditional Care**







## **Care with NiceDay**





# MCEDNY

Make each therapist as good as the best

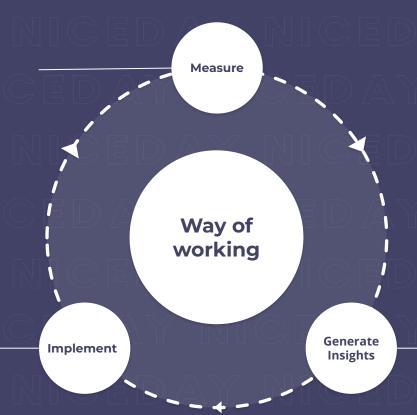


#### Measure

Effectiveness of treatment in NiceDay

#### **Implement**

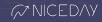
Make every therapist as good as the best therapist



#### **Generate insights**

Create insights that indicate what the best treatment practices are





### Bringing AI beyond a research setting

> 63.000 treatments

> 2.000 therapists







Our journey towards responsible Al



Congress 2022



### **Strong foundations**

2017

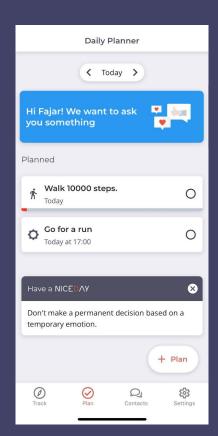




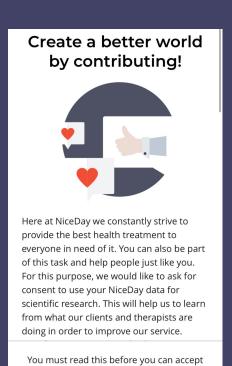


#### **Explicit Research Consent**

2018







Laccept

No, thanks



### **Insights with Domain Expert**

2019

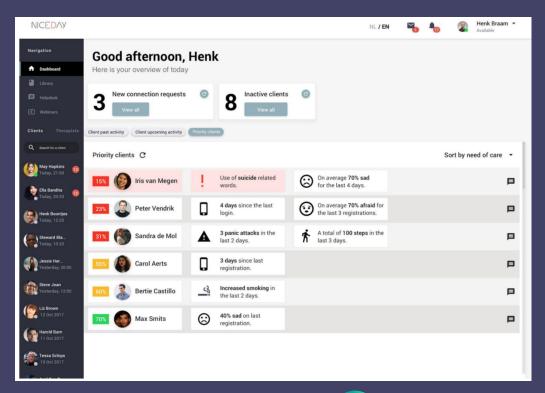
^ nd_way_score	^ i1	^ i2	^ i3	^ i4	^ i5	^ i6	^ i7	^ i8	^ i9	^ i10	^ i11
80.24%	0.54	0.79	0.84	0.88	0.48	0.91	1.00	1.00	1.00	1.00	0.82
73.44%	0.27	0.89	0.78	1.00	0.30	1.00	1.00	1.00	1.00	0.72	0.33
72.25%	0.45	0.67	1.00	0.88	0.05	0.84	1.00	0.98	0.99	0.91	0.63
71.50%	0.00	1.00	1.00	0.78	0.00	1.00	1.00	1.00	0.83	1.00	1.00
70.72%	0.00	0.81	1.00	1.00	0.36	0.77	1.00	0.73	1.00	1.00	0.48
69.45%	0.00	0.74	1.00	0.75	0.04	0.98	1.00	1.00	1.00	1.00	1.00
68.81%	0.60	0.72	1.00	0.49	0.04	0.92	1.00	0.94	1.00	1.00	0.36
67.97%	1.00	0.72	0.55	0.54	0.13	0.78	1.00	0.94	1.00	0.94	0.37
65.43%	0.66	1.00	0.00	1.00	0.00	1.00	1.00	1.00	0.56	0.71	0.71
65.42%	0.00	0.89	0.45	1.00	0.48	0.83	1.00	0.57	1.00	1.00	0.60
64.91%	1.00	1.00	0.39	1.00	0.00	1.00	1.00	0.59	1.00	0.00	0.00
64.13%	0.93	0.63	0.64	0.67	0.28	0.56	0.78	0.83	1.00	0.60	0.27



~NICED/Y

#### Al based client prioritization prototype

2020









#### Validating research

2021









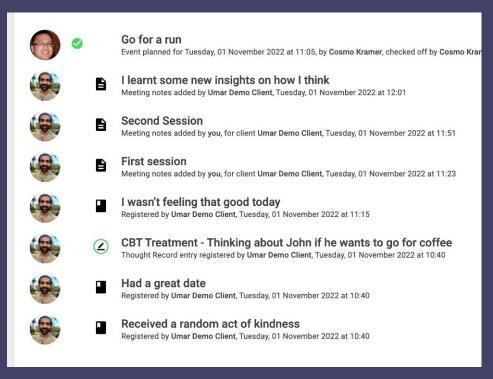






#### **Explainable AI for need driven care**

2022



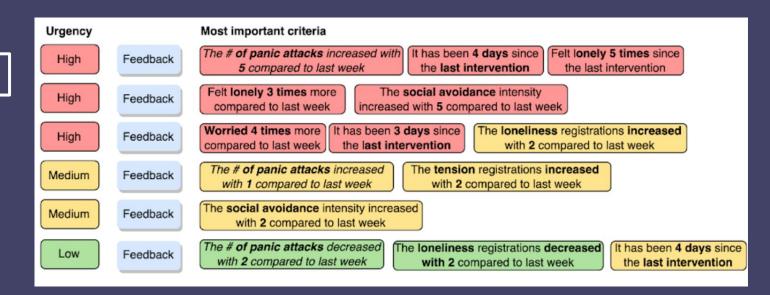
Need Driven Care Dashboard for therapists in current NiceDay





#### **Explainable AI for need driven care**

2022



Ideation of client prioritization based on expert driven AI





#### **Explainable AI for need driven care**

2022





COUNCYL





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# **Thank You!**

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