WP1 – Adapted Items for DIMI, for 9-11 years

DIMI citation:

Laaber, F., Florack, A., Koch, T., & Hubert, M. (2023). Digital maturity: Development and validation of the digital maturity inventory (DIMI). *Computers in Human Behavior*, *143,* 107709. https://doi.org/10.1016/j.chb.2023.107709

The goal of the adaptation was to simplify the wording of the items for younger children, as some reported poor understanding of these items.
In translating these items, please consider how they could be phrased in an easy way in the respective language, which children at age 9 could understand.

Variable	**Greek**	**English**
literacy_1_young	γνωρίζω πως να αλλάξω τις ρυθμίσεις ασφαλείας (για παράδειγμα, απενεργοποίηση cookies)	I know how to change the privacy settings (for example, turn off cookies)
literacy_2_young	γνωρίζω πως να αλλάξω τις ρυθμίσεις ασφαλείας στα μέσα κοινωνικής δικτύωσης (social media) (για παράδειγμα ποιος μπροεί να δει πράγματα για εμένα στο Instagram, Snapchat, TikTok)	I know how to change the privacy settings in social media (for example, who can see things about me on Instagram, Snapchat or TikTok)
growth_3_young	μαθαίνω νέες δεξιότητες	*In German, we had to simplify this item due to the German word for 'skills' being difficult and changed it to "I can teach myself something new". However, in English we concluded that the original version is clear enough. We would ask you to use your own judgement regarding the item difficulty in your language.*

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emotion_a1_young	και κάποιος λέει κάτι κακό για εμένα στο διαδίκτυο ή σε μήνυμα, αντιδρώ αμέσως χωρίς να σκεφτώ τις συνέπειες	and somebody says something bad about me online or in a text, I immediately react without thinking about the consequences
citizenship_2_young	χρησιμοποιώ το διαδίκτυο για να υποστηρίξω πράγματα, όπως η προστασία του περιβάλλονος, ή για να κάνω άλλους ανθρώπους να μάθουν για τη κλιματική αλλαγή	I use the internet to support things like environmental protection or to make other people aware of climate change
citizenship_3_young	τη χρησιμοποιώ για να υποστηρίξω πράγματα που έχουν πραγματική σημασία σε αυτόν τον κόσμο	I use it to support things that are really important in this world
respect_1_young	και διαφωνώ με κάποιον, προσπαθώ να μην πω τίποτα κακό	and I disagree with someone, I try not to say anything mean
respect_2_young	σκέφτομαι τα συναισθήματα των άλλων ανθρώπων	I think about the feelings of other people

For more detailed information regarding how to use the DIMI (instructions, labels), please refer to the version for adolescents aged 12-18 years.

SPSS Syntax for the Digital Maturity Score

```
#recode reverse scored items

RECODE autonomy_c1_young (5=1) (4=2) (3=3) (2=4) (1=5) INTO
autonomy_c1r_young.
EXECUTE.

RECODE autonomy_c2_young (5=1) (4=2) (3=3) (2=4) (1=5) INTO
autonomy_c2r_young.
EXECUTE.

RECODE autonomy_c3_young (5=1) (4=2) (3=3) (2=4) (1=5) INTO
autonomy_c3r_young.
EXECUTE.

RECODE emotion_n1_young (5=1) (4=2) (3=3) (2=4) (1=5) INTO emotion_n1r_young.
EXECUTE.
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```
RECODE emotion_n2_young (5=1) (4=2) (3=3) (2=4) (1=5) INTO emotion_n2r_young.
EXECUTE.

RECODE emotion_n3_young (5=1) (4=2) (3=3) (2=4) (1=5) INTO emotion_n3r_young.
EXECUTE.

RECODE emotion_a1_young (5=1) (4=2) (3=3) (2=4) (1=5) INTO emotion_a1r_young.
EXECUTE.

RECODE emotion_a2_young (5=1) (4=2) (3=3) (2=4) (1=5) INTO emotion_a2r_young.
EXECUTE.

RECODE emotion_a3_young (5=1) (4=2) (3=3) (2=4) (1=5) INTO emotion_a3r_young.
EXECUTE.


#computing scale scores

COMPUTE AutonomyChoice_score_young
=MEAN.2(autonomy_c1r_young,autonomy_c2r_young,autonomy_c3r_young).
EXECUTE.

COMPUTE AutonomyWithin_score_young
=MEAN.2(autonomy_w1_young,autonomy_w2_young,autonomy_w3_young).
EXECUTE.


COMPUTE Literacy_score_young
=MEAN.2(literacy_1_young,literacy_2_young,literacy_3_young).
EXECUTE.

COMPUTE Growth_score_young
=MEAN.2(growth_1_young,growth_2_young,growth_3_young).
EXECUTE.


COMPUTE Risk_score_young =MEAN.2(risk_1_young,risk_2_young,risk_3_young).
EXECUTE.


COMPUTE EmoNeg_score_young
=MEAN.2(emotion_n1r_young,emotion_n2r_young,emotion_n3r_young).
EXECUTE.


COMPUTE EmoAgg_score_young
=MEAN.2(emotion_a1r_young,emotion_a2r_young,emotion_a3r_young).
EXECUTE.

COMPUTE Support_score_young
=MEAN.3(support_1_young,support_2_young,support_3_young,support_4_young).
EXECUTE.
```

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```
COMPUTE
Respect_score_young=MEAN.3(respect_1_young,respect_2_young,respect_3_young,re
spect_4_young).
EXECUTE.


COMPUTE Citizenship_score_young
=MEAN.2(citizenship_1_young,citizenship_2_young,citizenship_3_young).
EXECUTE.


#Creating weighted dimension scores using the mean scores of expert importance rating
(as seen in Rijsdijk et al., 2007).

COMPUTE Literacy_Pweighted_young =10.17 * Literacy_score_young.
EXECUTE.

COMPUTE Growth_Pweighted_young =10.43 * Growth_score_young.
EXECUTE.

COMPUTE AutonomyC_Pweighted_young =9.91 * AutonomyChoice_score_young.
EXECUTE.

COMPUTE AutonomyW_Pweighted_young =9.39 * AutonomyWithin_score_young.
EXECUTE.

COMPUTE EmotionN_Pweighted_young =10.30 * EmoNeg_score_young.
EXECUTE.

COMPUTE EmotionA_Pweighted_young =9.91 * EmoAgg_score_young.
EXECUTE.

COMPUTE Risk_Pweighted_young =11.73 * Risk_score_young.
EXECUTE.

COMPUTE Citizenship_Pweighted_young =8.47 * Citizenship_score_young.
EXECUTE.

COMPUTE Respect_Pweighted_young =10.30 * Respect_score_young.
EXECUTE.

COMPUTE Support_Pweighted_young =9.39 * Support_score_young.
EXECUTE.


#creating composite measure by adding the weighted dimension scores

COMPUTE DigMat_Pcomposite_young =(Literacy_Pweighted_young +
Growth_Pweighted_young + AutonomyC_Pweighted_young +
```

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```
    AutonomyW_Pweighted_young + EmotionN_Pweighted_young +
EmotionA_Pweighted_young + Risk_Pweighted_young + Citizenship_Pweighted_young
+
    Respect_Pweighted_young + Support_Pweighted_young).
EXECUTE.
```

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