

Introduction and Objectives

- To systematize the use of measurement instruments assessing behavioral outcomes to study tobacco- and nicotine-containing products (TNP), the Philip Morris International (PMI) Behavioral Science team has launched the development of a specific Repository with the support of Mapi Research Trust (MRT).
- The goals of the Repository are :
- \checkmark To assess, select, store, and use up-to-date and official versions (original and translations) of instruments in a standardized environment as well as to facilitate the consultation of related documentation (e.g., publications or scoring)
- \checkmark To harmonize the use of these instruments among all PMI researchers by transferring them to the study operation teams during the study set-up phase.
- ✓ To list and keep track of all studies using these instruments, allowing a global view of ongoing researches.
- This poster presents the development and implementation of such a knowledge base since June 2016.

Methods

Development Process (2016)

Structure

To enable optimal management and use of the instruments, MRT developed the Repository by establishing a structure in two folders interacting with each other: one instrument-related folder, and one focusing on the studies.

- **The instrument folder**, in which each available instrument is listed and stored, enables access, selection, and update of the original instruments, their studyspecific versions, the translations and their certificates, and related metadata. The information available about each instrument is modeled on the structure of the Patient-Reported Outcome and Quality of Life Instruments Database (PROQOLID[™]). PROQOLID[™] was developed by MRT in 2002 to provide healthcare researchers with an accurate, up-to-date, and centralized source of information on Clinical Outcome Assessments (Emery et al. HQLO 2005 3:12). As such, it offers access to 16 categories of information for each instrument (e.g., name of authors/developers, condition of use and copyright notice, objective of the instrument, measurement properties, original language of development, translations, characteristics (concept of interest, number of items, population of intended use, recall period, time of completion, administration mode), domains covered, scoring instructions, and content validity documentation).
- The study folder compiles PMI-sponsored studies, using instruments measuring tobacco-related behavioral outcomes. Each study, identified by its protocol number, provides information with respect to the study manager and the study's start date and end date.

Maintenance rules

- The Repository is dedicated for internal use among PMI researchers (i.e., the Behavioral Science team and the study operation teams). It is maintained and updated by MRT and by PMI's Behavioral Science team.
- Two levels of accounts were developed;
- 1. The administrator account is controlled by the Behavioral Science team researchers and enables the update of the studies' and instruments' metadata and the management of the members' accounts.
- 2. The **member account** allows PMI researchers to view the metadata and access to the instruments, versions, and certificates.
- The PMI Repository is hosted on the <u>ePROVIDE™</u> platform.

Review (Dec 2018)

- The Repository was searched to provide an overview of its content, characteristics, and properties two years after its development
- The collaborative processes between parties (MRT, the Behavioral Science team, and the study operation teams) were also reviewed to describe their interaction with the tool and its use.

Creating a Repository for the Assessment of Tobacco-**Related Behavioral C**

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- To date, the Repository includes **116 measurement instruments** in the instrument folder and
- About two-thirds of the available instruments focus on tobacco behavior. The table in Part 2 plant concepts of interest.
- A directory is available for each instrument, in which all available versions are listed. Under ea Word and PDF formats and its available translations as well as the certificate of translation instrument is used in a specific study, the study protocol number appears.
- On the study folder side, Part 4 shows the layout of a study. For each study, a drop-down m Access to each instrument is also possible from this localization (Part 5)



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Part 3: An instrument's version and available translation

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AY STUDIES 35 + ADD A NEW STUDY C SEARCH MY STUDIES Part 1: Account administrator la Description DESCRIPTION STUDY PROTOCOL NUMBER P1-PMX-01-JP STUDY MANAGER Oliver Brown	Inents, which are sorted by related original-language instrument in MS method performed (Part 3). If the the instruments used in the study.	 Interactions Bet To integrate of back-and-forth team, and the PMI (beha MRT seare modification MRT created PMI (beha template) The ABOUT *
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tween Teams

or use an instrument within the catalogue of the Repository, a h process takes place between MRT, PMI's Behavioral Science study operation teams:

avioral or operation) selects an instrument per their study needs. rches for copyright clearance and authorization for translation and on if required

tes the instrument entry and the categories in the Repository.

avioral) formats the original-language instrument per the right

avioral) uploads the original-language instrument in the Repository ads the translations and certificates in the Repository.

avioral) links the instrument to the corresponding studies.

ation) uses the right instruments (original or translations).

a current need for valid and reliable measurement instruments ess consumer responses to modified risk tobacco products, PMI the **ABOUT™ Toolbox** (Assessment of **B**ehavioral **OU**tcomes co and nicotine products), currently comprising five measurement covering high-priority tobacco-related domains :

[™]—Perceived Risk assesses risk perception.

[™]—Use History assesses frequency and intensity of current and e behavior, initiation, and cessation.

[™]—**Product Experience** encompasses a range of self-reported of an individual's experience using a TNP, including satisfaction, I reward, and craving.

™—Dependence assesses nicotine dependence.

Γ™—Health and Functioning, currently in development, will eflect the health and functioning status of individuals who use particular focus on healthy adult smokers who switch to MRTPs.

Toolbox instruments, catalogued ry, will be available to the scientific bugh PROQOLID[™] and will be for non-commercial use.



Discussion/Conclusions

level, communication and collaboration between involved team navioral and study operation) is greatly facilitated at various stages mentation.

epository, researchers are able to :

ently used measurement instruments in one single location pare available versions of an instrument

of the history of modifications of an instrument

instrument's version

cess available translations

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to regularly used instruments is centralized, allowing an their management in addition to a user-friendly and global view . Selection and distribution of the measurement instruments to the on teams are greatly improved in terms of time saved and quality.

Repository is a unique initiative that enables PMI researchers :

elect, and use up-to-date and official versions (original and ⁱ instruments in a standardized environment and to transfer them to the study operation teams during the study set-up phase.

To share their own instruments (i.e., the **ABOUT™ Toolbox**) with other researchers through PROQOLID[™].

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