## Household Harmonizer Data Flow Diagram **Couples therapists** Occurring on the user's device(s) / Instance of application **Application Level / Server** and family Detect noise and Apply speech Recent 1 counselors will delimit packets by Acquire / create detection noise SINK -Delete Non silence greater marvel at the static speech model packets speech audio than n seconds detection model Household Harmonizer which ω Download listens to your untrained speaker family and alerts Noise detection model \*Orange arrows containing you to potential as part of speech misunderstandings. inherit data application ω label from You will train the Train speaker SINK - Discard Delimit audio name of model harmonizer which model at source files by speaker works with digital setup assistant and is configured via a SmartPhone app. Recent audio Trained conversation speaker objects The more feedback detection model you provide 12 Household Harmonizer, the Apply speech Acquire / create better it will work recognition model static speech but you can set recognition model privacy to prevent G feedback to the HH Recent text servers conversation objects Data Labels \* G Description Replace idioms and Records are edited so **Audio files** slang with literal (5) is not retained meaning Non-Speech Audio **Speech Containing** Audio Non slang **Audio Conversation** containing text objects (collection of conversations related audio including speaker) Same as (4) except 10 audio objects replaced by text strings they Apply statement / contained. Also has question SINK - Discard nonindices to (4, 12) correlation model extreme scored Same as (5) but to conversation conversations idioms and slang have been replaced by Statement / literal meanings question \*Orange **Processed** correlation model Interesting conversations include arrows conversations (6) + scores of 14 conversation inherit data elements (except 1st element) and scores Retrain label from Send warning and for the conversation statement good job / question name of Messages include messages to users correlation **Users live** conversation details store or model (7), assessments, and happier lives ∞ model feedback surveys with improved Incorrectly classified Users read and respond voices. Includes listening skills element of the processed 11 10 conversation (8) Standard idiom dictionary 10 **Custom idioms** Anonymized Includes object (7) Mislabeled interesting voice with the additional 13 conversations field for user elements agreement / 9 disagreements but Custom idiom Query custom dictionary speaker anonymized idiom Element of audio Query associated dictionaries, 12 12 conversation (4) audio and refine / aggregate, insert Aggregated important retrain the speaker important idioms new idiom dictionary identification model to standard 13 entries idiom dictionary 14 14 **Updates to model**