

### PILOT for the repurposing framework

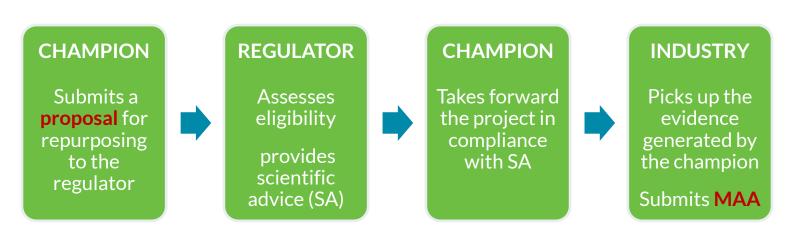
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#### **OVERALL AIM**

Assessment of the proposed framework





#### **OBJECTIVES**

- Test run the framework with real life examples
- Evaluate the added value of the framework
  - for public health: societal relevance?
  - for stakeholders??



#### Stakeholder specific objectives

- Clarity of the core components: need for specific repurposing guidance?
- Feasibility of getting access to the required information
- Willingness of key clinical investigators to collaborate
- Applicability of databases to identify MAH

champion



- Identification of potential candidates for label extension
- Existing SA route: applicable for "unexperienced" champion?
- Quality and completeness of the information?
- Professional sounding board?
- Uptake of scientific advice, translation into a proper clinical trial

regulator



- Identification of potential candidates for label extension
- Quality of the evidence provided by the non-profit: compliant with the regulator?
- Feasibility of engagement with a champion?
- Economic feasibility of bringing forward a new indication: ROI or CSR?

industry





## DELIVERABLES short term

- Identification of potential candidates for repurposing and respective champions
- Application(s) for SA ⇒ outcome letter
- Continuation of treatment development (clinical trial) in compliance with SA



# DELIVERABLES long term

- Uptake of repurposing candidate(s) by business companies
- MAA by a business company
- No uptake by industry of appropriate evidence generated by champion ⇒ communication?



#### The Anticancer Fund: real life examples in oncology

► Hard repurposing: non-cancer drugs ⇒ cancer indication



Soft repurposing: oncological drug ⇒ new cancer indication



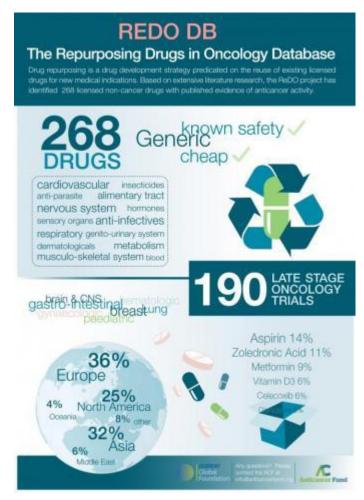
Hard repurposing: build on of the increasing knowledge of the tumor biology ⇒ Microenvironment: immunological, metabolic, inflammatory pathways



Patients and politicians anxiously await and increasingly demand a 'cure' for cancer. But trying to control the disease may prove a better plan than striving to cure it, says Robert A. Gatenby.

"Efforts to eliminate cancers may actually hasten the emergence of resistance and tumour recurrence."

**Soft repurposing:** unmet needs in rare cancers, especially paediatric oncology





#### Characteristics of potential candidates

- Early versus late entry? ⇒ Extent of the pilot project
- Primary indication approved nationally or centralised? 

  ⇒ choice of country?
- Hard versus soft repurposing?
- Combination of drugs versus monotherapy



#### Early-stage entry

- propranolol and etodolac in pancreatic cancer
- acetylsalicylic acid and atorvastin in castration resistant (CR)-prostate cancer
- zoledronic acid and serolimus in osteosarcoma
- propranolol in angiosarcoma
- 9 non-cancer drugs in glioblastoma

#### Late-stage entry

- zoledronic acid in breast cancer
- letrozole in ovarian cancer
- docetaxel in hormoon sensitive prostate cancer
- clarithromycin in Multiple Myeloma



#### **National approval**

- propranolol and etodolac in pancreatic cancer
- letrozole in ovarian cancer
- acetylsalicylic acid and atorvastin in CR-prostate cancer
- propranolol in angiosarcoma
- clarithromycin in Multiple Myeloma
- 8/9 non-cancer drugs in GBM

#### Centralized approval

- zoledronic acid in breast cancer
- zoledronic acid and serolimus in osteosarcoma
- docetaxel in hormoon sensitive prostate cancer



#### Hard repurposing

- clarithromycin in Multiple Myeloma
- propranolol in angiosarcoma
- propranolol and etodolac in pancreatic cancer
- Acetylsalicylic acid and atorvastin in CR-prostate cancer
- 9 non-cancer drugs in glioblastoma

#### Soft repurposing

- zoledronic acid in breast cancer
- letrozole in ovarian cancer
- docetaxel in hormoon sensitive prostate cancer
- zoledronic acid and serolimus in osteosarcoma



#### **Combinations**

- propranolol and etodolac in pancreatic cancer
- acetylsalicylic acid and atorvastin in CR-prostate cancer
- zoledronic acid and serolimus in osteosarcoma
- 9 non-cancer drugs in glioblastoma

#### Monotherapy

- zoledronic acid in breast cancer
- letrozole in ovarian cancer
- docetaxel in hormoon sensitive prostate cancer
- propranolol in angiosarcoma
- clarithromycin in Multiple Myeloma



#### REPURPOSING PILOT MONITORING BOARD

- WHY? The champion is unexperienced and will need support
  - The added value of the framework (contribution to public health, societal relevance) should be evaluated
- WHO? Interested members of the current STAMP working group
- HOW? Advisory role on a voluntary base, troubleshooting, monitoring progress, compiling a final report
- WHEN? Convene as determined at start OR upon request by the champion

## Thank you

