

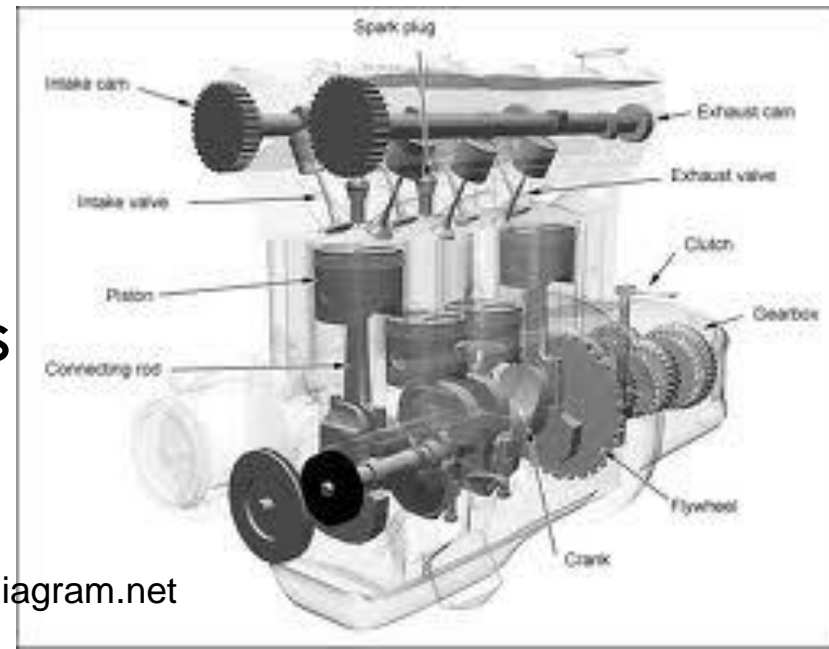
KOMP2 Engine of Discovery

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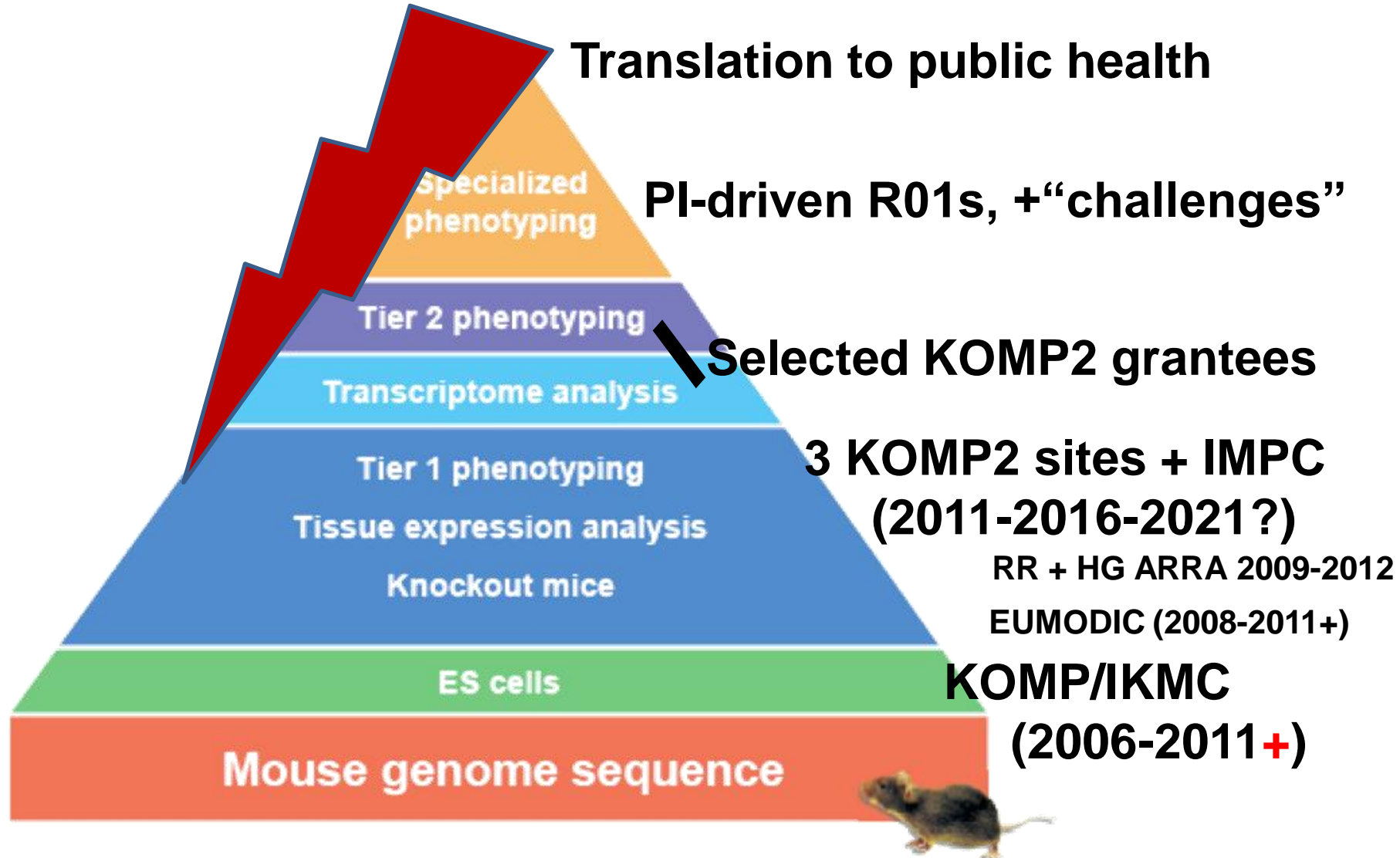
CommonFund of NIH OD RFA + 1/2 funding,
NHGRI, NCRR, NCI, NEI, NHLBI, NIA, NIAAA,
NIAID, NIAMS, NICHD, NIDA, NIDCD, NIDCR,
NIDDK, NIEHS, NIGMS, NINDS, NIMH, OAR

KOMP Pls and co-workers

KOMP2 Pls and co-workers



Past, Present, Future



Products of KOMP2 Phase I

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Functional **characterization of 2,500 predicted protein-coding genes whose function is currently unknown.**

Novel genes will be brought to light that otherwise would be ignored. New genes of interest will be further pursued by categorical NIH ICs.

Publicly available **resource** of >8,500 vectors, >8,500 mutant ES cell lines, and 2,500 phenotyped **mouse lines**.

Massive, **interlinking datasets to be mined for translational research in 2012-**2032**.**

Selected features



Reliable, comprehensive, positive and **negative** data for widespread use by investigators worldwide.

KOMP2 via 7 grants at 9 sites worldwide

2,500 KOs/5yrs (833/grant/5yrs, 167/grant/yr)

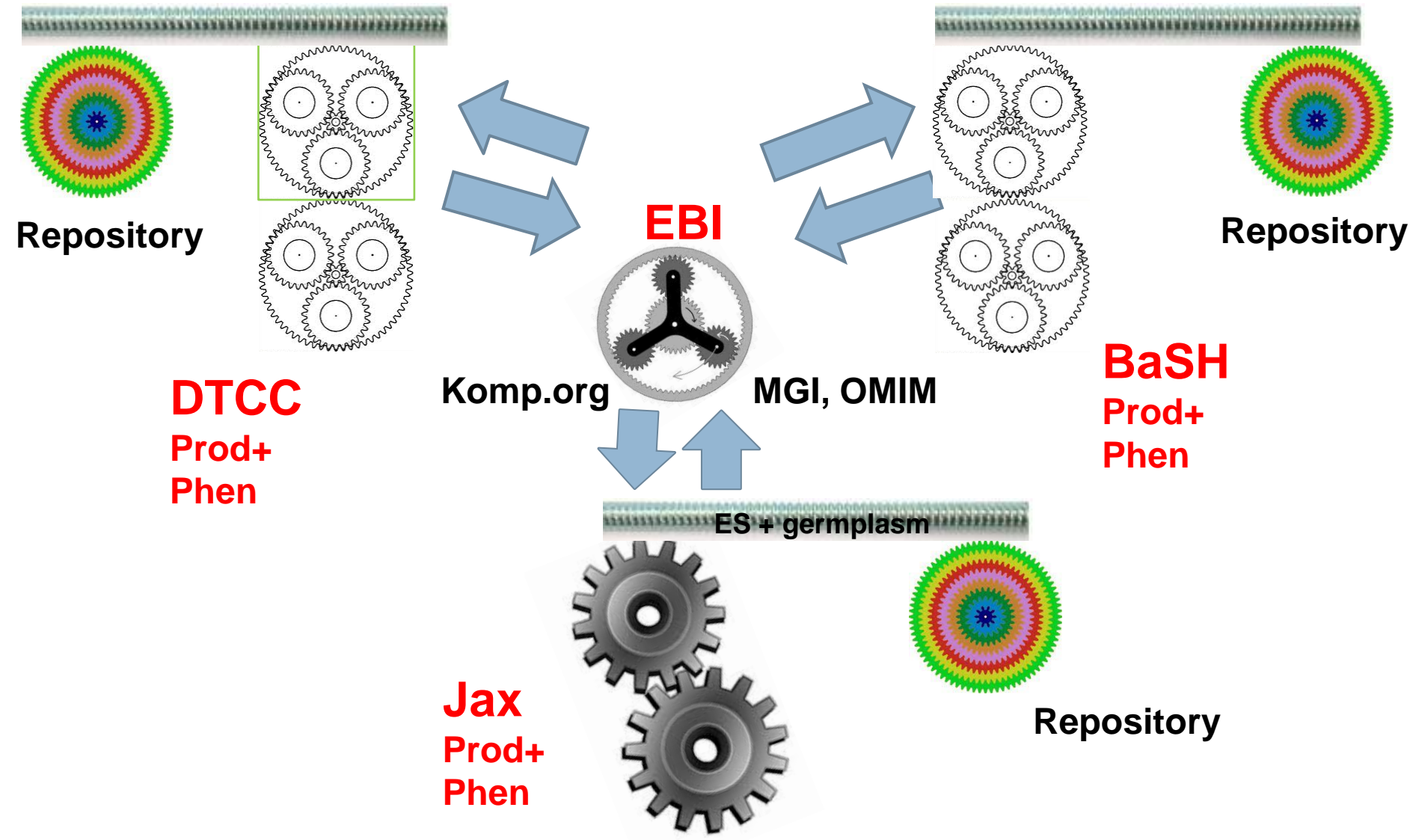
lacZ stain heterozygotes,

phenotype homozygotes (or hets if homs are nonviable).

7M + 7F C57BL/6N / KO gene, and daily control group.

Further development and cost-optimization before KOMP2 Phase II in 2016-2021.

KOMP2 Engine of Discovery



Future Timeframes

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September 2011 - NoAs, and begin:

yearly face-to-face meetings,

gene list + core phenotyping protocol,

press release,

monthly PI teleconferences,

periodic NIH IC discussions.

2015 (Yr4) assessment for funding Phase II, will need:

gene characterizations (publications, database),

orders = need+cost recovery at repository(ies),

cost-effectiveness for taxpayers.

Further evolution is expected



<http://nearemmaus.com/>



<http://canitbesaturdaynow.com/>