



STRIVING TO EXCELLENCE

TEL AVIV MEDICAL CENTER

Michal Roll PhD, MBA
Director, R&D Division



Emergency
Underground
Hospital

Ofer
(Heart & Brain)

Arison
(Surgery & Oncology)

Nursing School

Sourasky
(Medicine)

Lis
(Ob-Gyn)

Rehabilitation
Hospital

Dana-Dwek
(Pediatrics)



Tel Aviv Medical Center
ACCREDITED BY
Joint Commission International
AS A LEADING ACADEMIC MEDICAL CENTER
FOR ITS CLINICAL WORK, ACADEMIC AND HUMAN RESEARCH



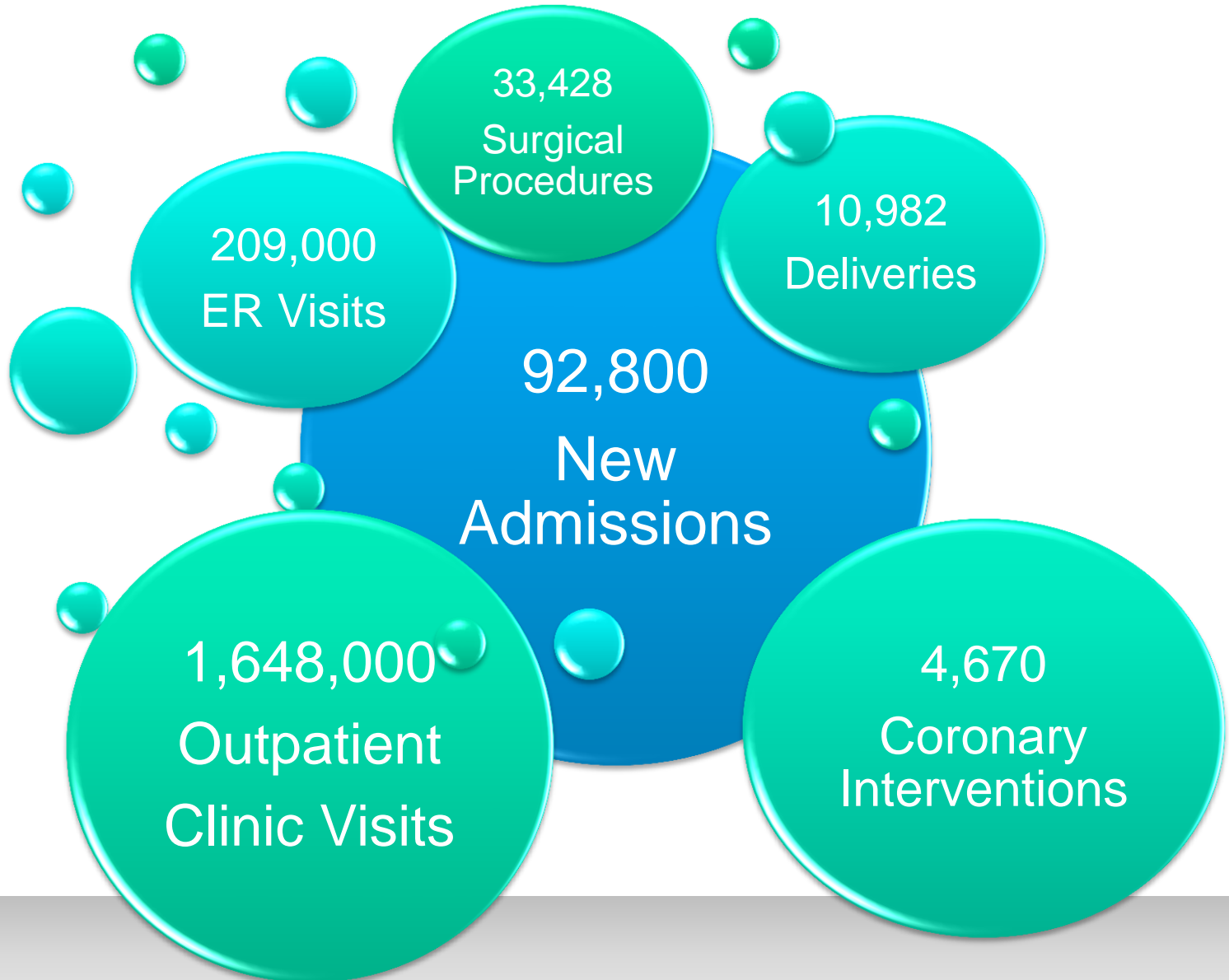


Facts & Figures (2013)



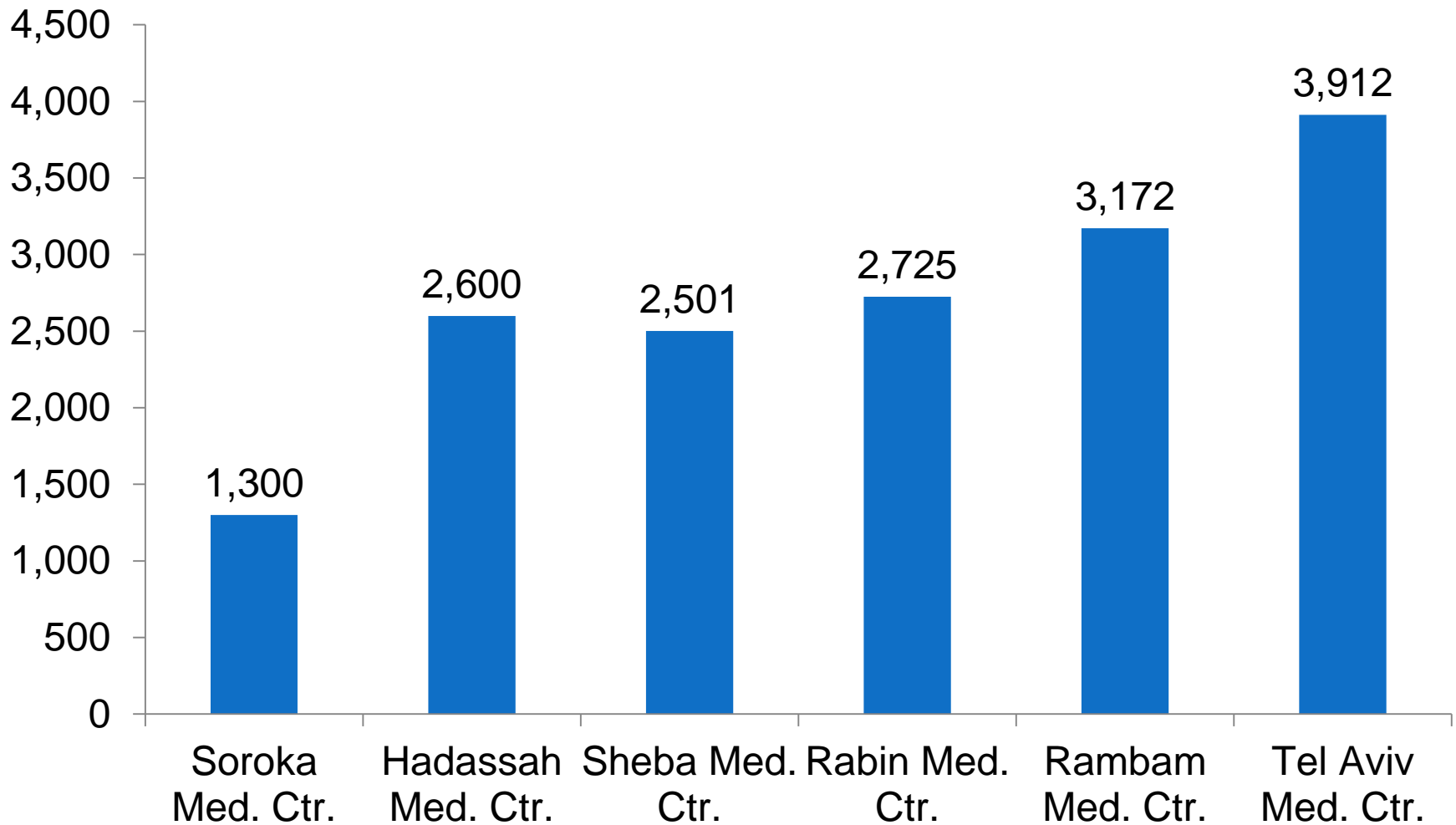


Facts & Figures (2013)





No. New Oncological Patients - 2013





2013-2014

TLVMC – A Major Teaching Hospital of The Tel-Aviv University

271
Medical
Students

110
Clinical
Rotations

3 weeks
Average
Rotation



Peer-reviewed Publications 2013 – 2010

Categories	Rec.
Surgery	304
Neurology	196
Pediatrics	133
Cardiology	131
Gastroenterology	120
Internal Medicine	104
Laboratory Medicine	102
Oncology	93
Obstetrics & Gynecology	92
Movement Disorders	90
Ophthalmology	87
Endocrinology	84
Dermatology	82
Otolaryngology	77
Neurosurgery	67
Orthopedics	66

Categories	Rec.
Epidemiology	56
Psychiatry & Psychology	52
Neonatology	50
Anesthesiology	48
Radiology	47
Urology	46
Hematology	43
Nephrology	28
Critical Care	25
Orthopedic Oncology	24
Emergency Medicine	17
Plastic Surgery	16
Oral and Maxillofacial Surgery	11
Microbiology	11
Pain Medicine	11

Total Publications: 2,313



International Collaborations





Medical Center As an Incubator for Excellence in Research



RESEARCH AT TEL AVIV MEDICAL CENTER



38 Basic Research labs
connected to specific clinical departments and institutes

Interdepartmental and collaborative projects,
based on dedicated infrastructure

Translational research – from bench to bedside
Specific animal models for disease research

Clinical research- phase 1 to phase 4,
investigator initiated or sponsored

Novel ideas based on our patents, transferred to industry or new companies



RESEARCH STAFF

Over 1300 MDs (over 705 specialists)

Over 320 have academic appointments at TAU (102 professors)

Over 40 MD-PhDs in leading positions

About 100 dedicated, trained clinical research coordinators (CRA's)

Outstanding young clinicians in PhD programs

Over 60 senior researchers as clinical scientists (PhD)

About 100 Graduate Students for PhD and MSc



Infrastructure for Research

Dedicated labs – cancer research, GI diseases

Brain imaging research lab (3 TESLA MRI)

Genomics and bioinformatics lab

Gait assessment lab

Cell therapy with GMP facility

animal facility for small animals

Central bio-bank





TLVMC investment in Research

Excellence Fund-
grants for young and
established
investigators, and for
collaborative projects

“OFEK”
fellowships for
physicians

Applied Fund
For applied projects-
at proof of concept
stage

Scholarships for
outstanding medical
students for research
ROM program

Joint Fund with
Weizmann Institute,

Clinician–researcher
Program
“**Adopt a Researcher**
“ program

Consulting services
for researchers

Patent registration
and business
development of IP of
Staff

On-going
development of lab
infrastructure

Joint Fund with TAU

GCP courses
Specific CRA track

Editing and statistics
services



Principles of Conducting Clinical Trials at TLVMC

We place utmost importance on respecting and protecting the safety of our research participants

We are committed to approving and conducting clinical research that fully complies with all legal and regulatory requirements.



TLVMC – a leader in clinical trials:

**Up-to- date and
advanced clinical care
services**

**Patient cohorts for
various disease
indications**

**IRB according to
international
guidelines**

**Infrastructure-
specialized labs,
advanced equipment**

**Dedicated staff expert
in running clinical
trials-GCP trained**

**in house on-going
auditing**

**Management-
contracts and
insurance**



PROFESSIONAL CLINICAL RESEARCH

**Expert IRB-
registered in
the NIH, FDA**

**A. Clinical
Research
Center – for
phase I and
bioequivalence
studies**

**B. Phase 1
Oncology**

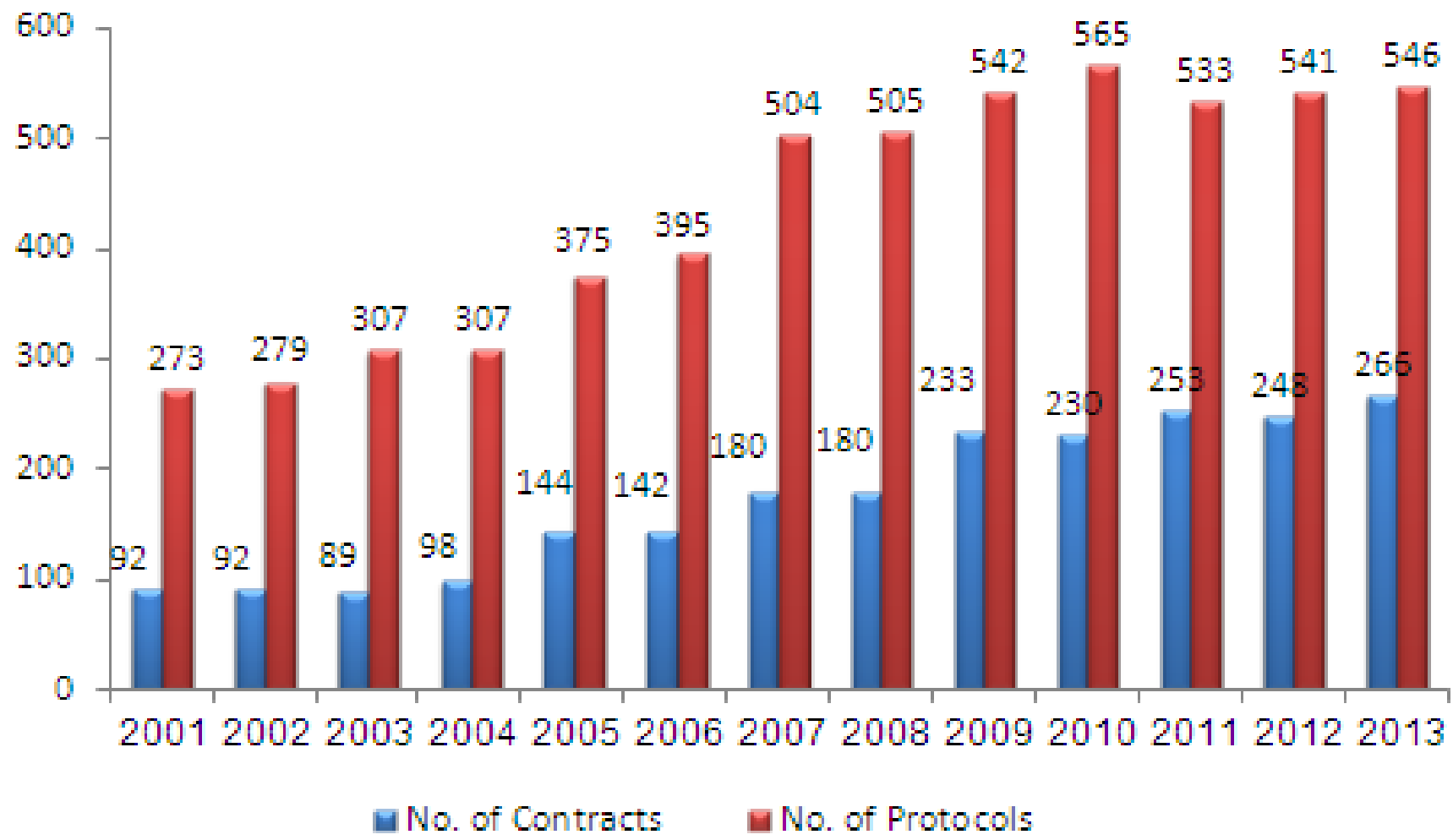
**Clinical Trials
Network
Services – for
fast
recruitment of
and
monitoring
patients for
contract
research**

**Commitment
to GCP -
compulsory
training of
physicians
and
coordinators**





IRB Activity and Clinical Contracts





***WE ARE A MEMBER OF THE
INSPIRE PROGRAM
AMONG LEADING ACADEMIC CENTERS IN
CLINICAL RESEARCH WORLD WIDE***



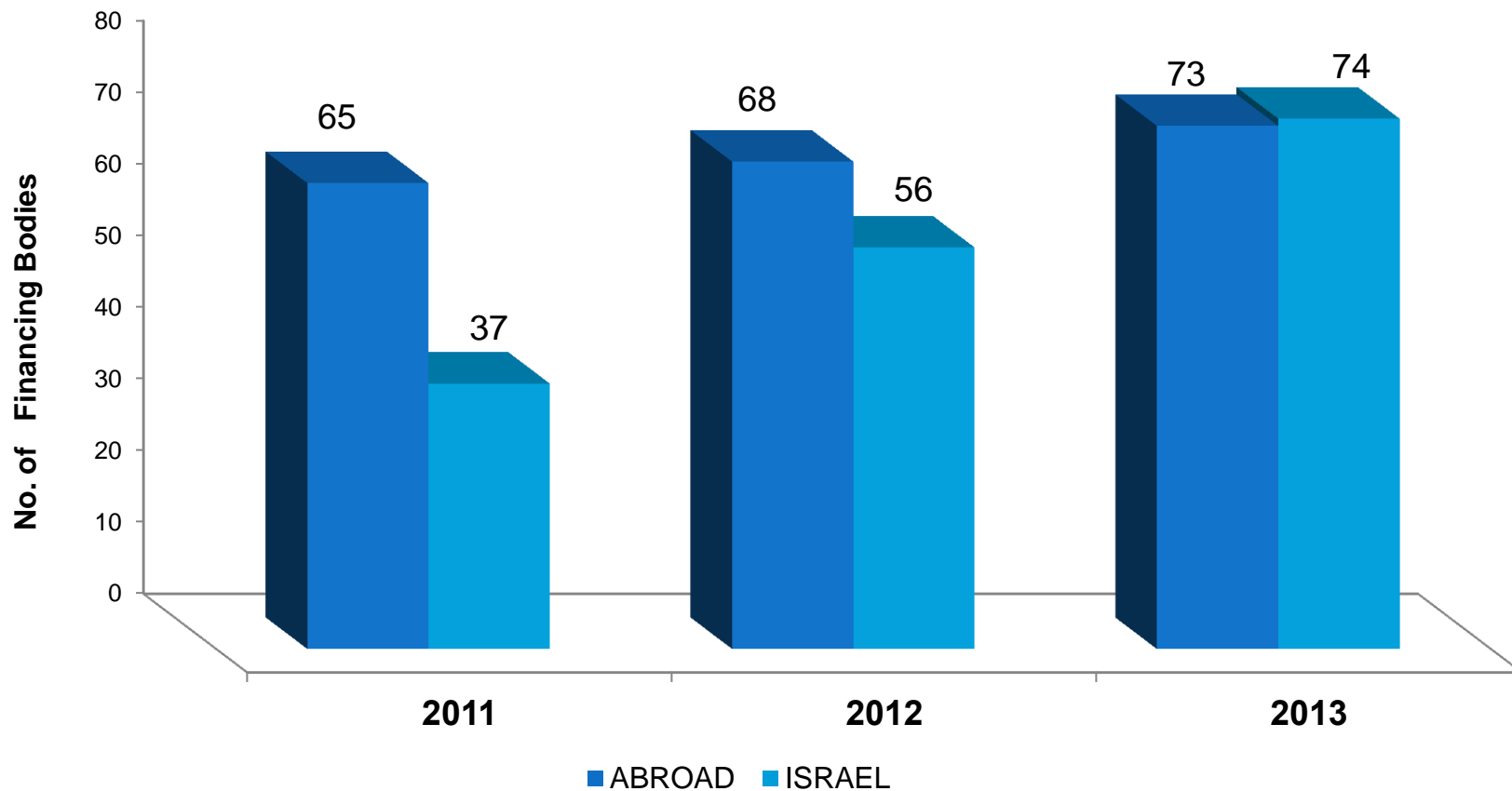
TLVMC – A LEADER IN CLINICAL TRIALS



**TASMC -First site in Israel approved
to perform Novartis Oncology
Translational Medicine, First in Man
trials.**



Clinical Trials according to No. of Financing Bodies





INTERNAL AUDIT OF CLINICAL TRIALS

Continuous monitoring of all on going trials

In depth audit of selected trials (according to researchers, departments, new drugs, devices, genetics, special populations)

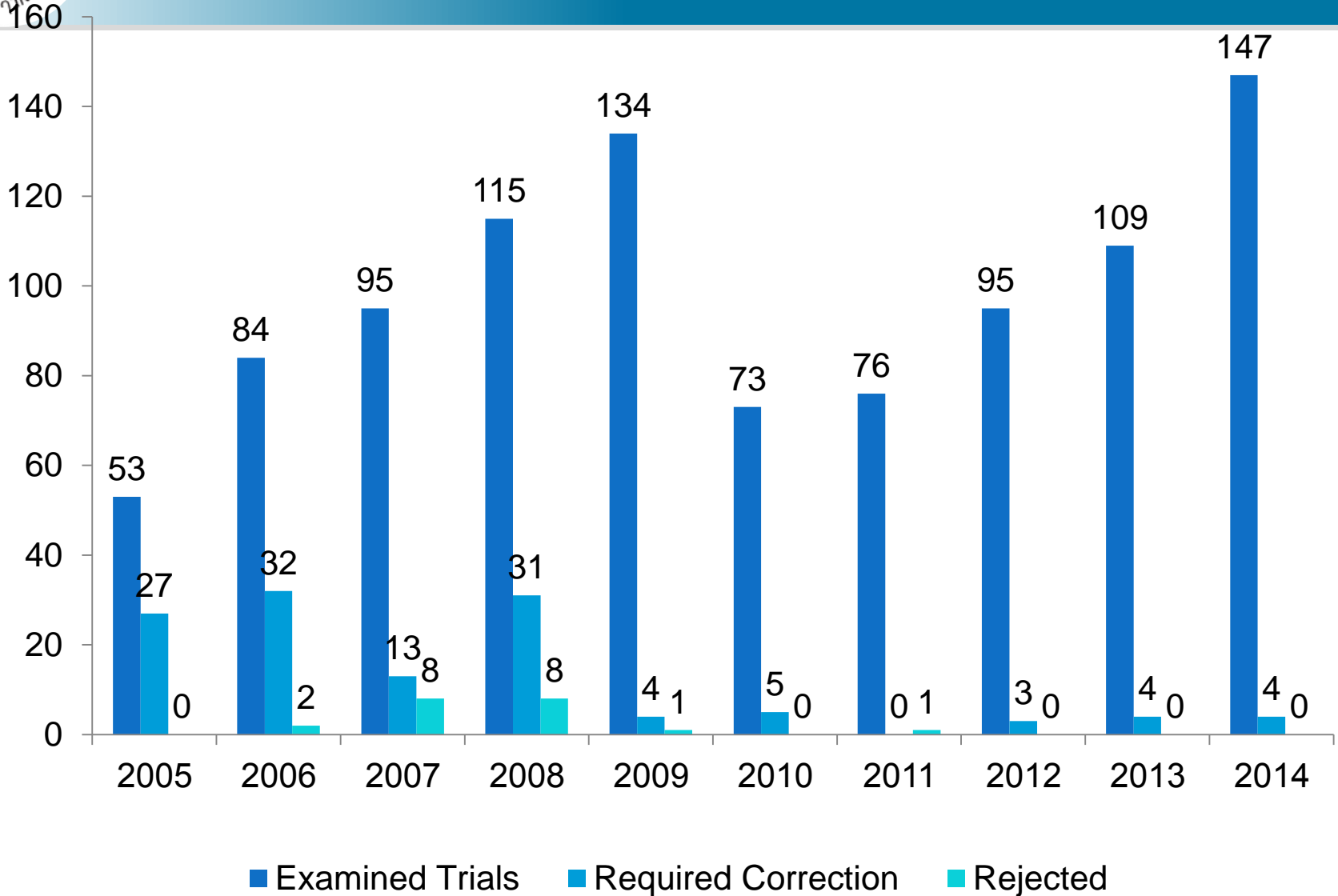
Checking patient source data, informed consents, documents



All findings are presented to the committee for further evaluation and recommendation to the IRB and the Director General, for punishing measures



INTERNAL AUDIT OF CLINICAL TRIALS





HOW FAST CAN YOU GET APPROVAL?

IF

Protocol is approved without any need for corrections and changes;

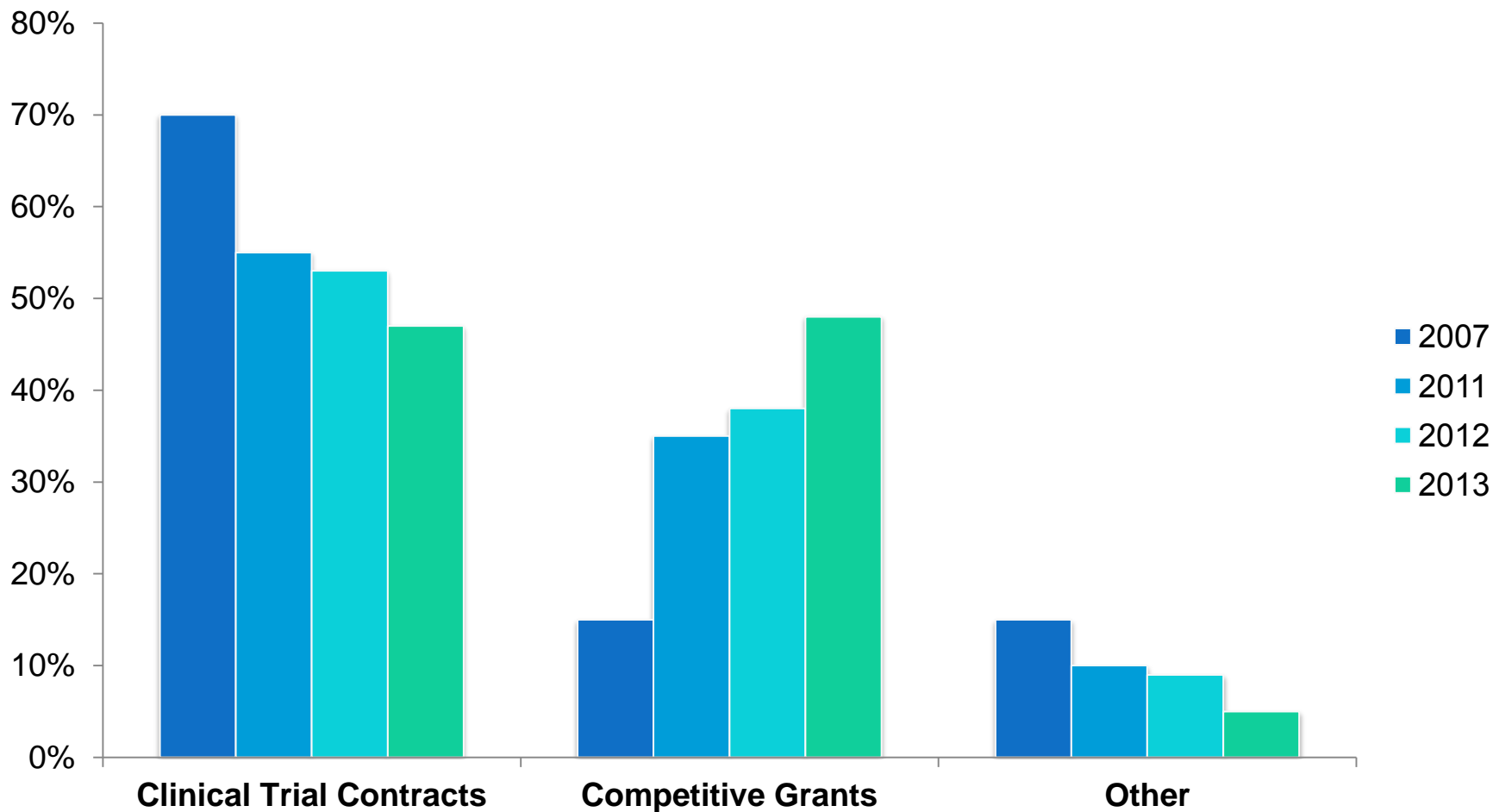
No need for MOH approval;

About 3 weeks from submission to IRB approval;

Annex 7 is provided only after contract is signed- get it ready in time!



FUNDING OF RESEARCH 2007-2013





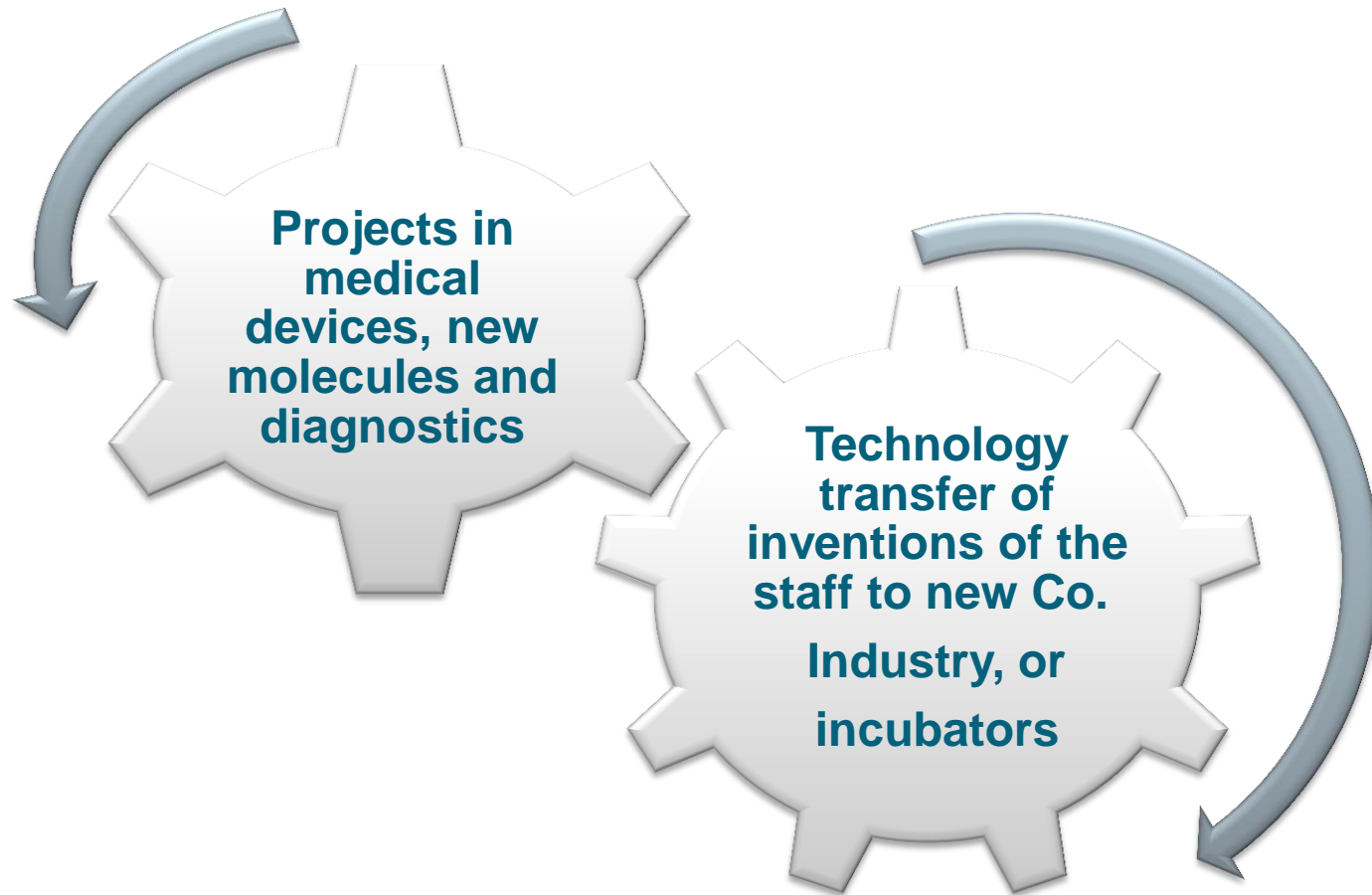
MAJOR INTERNATIONAL GRANTS

NIH 	NCI - Radiation Therapy Oncology Group (RTOG) 	MacDonnell Foundation 	National Parkinson Foundation 
ALS Assoc. 	NASRAD - brain and behavior research fund 	MJ Fox Foundation 	European Union research programs 
March of Dimes 	Fragile X Foundation 	DOD - US army 	HELMSLEY 





BUSINESS DEVELOPMENT





ENHANCING INNOVATION



- **A HUB FOR FAST ANALYSIS OF NEW IDEAS**
- **INTERNAL FUNDING FOR PROOF OF CONCEPT STUDIES**
- **MEDTECH CLUB- MEETING LEADERS AND EXPERTS**
- **TASMC WORKSHOP- INNOVATION AND BASICS OF DEVICES DEVELOPMENT**

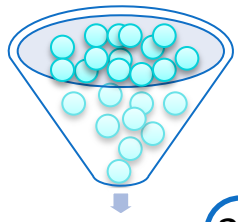




INTERNAL ACCELERATOR FOR MEDICAL DEVICES :2013-2014

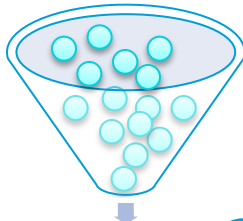
Process of assessing and developing 38 new ideas

Brainstorming



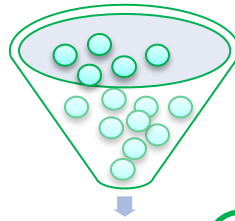
38

Patent search



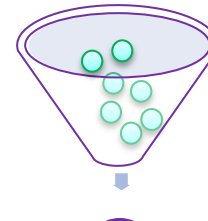
20

Market search



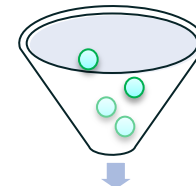
18

Opinion leaders



15

Provisional



10

No. of projects screened

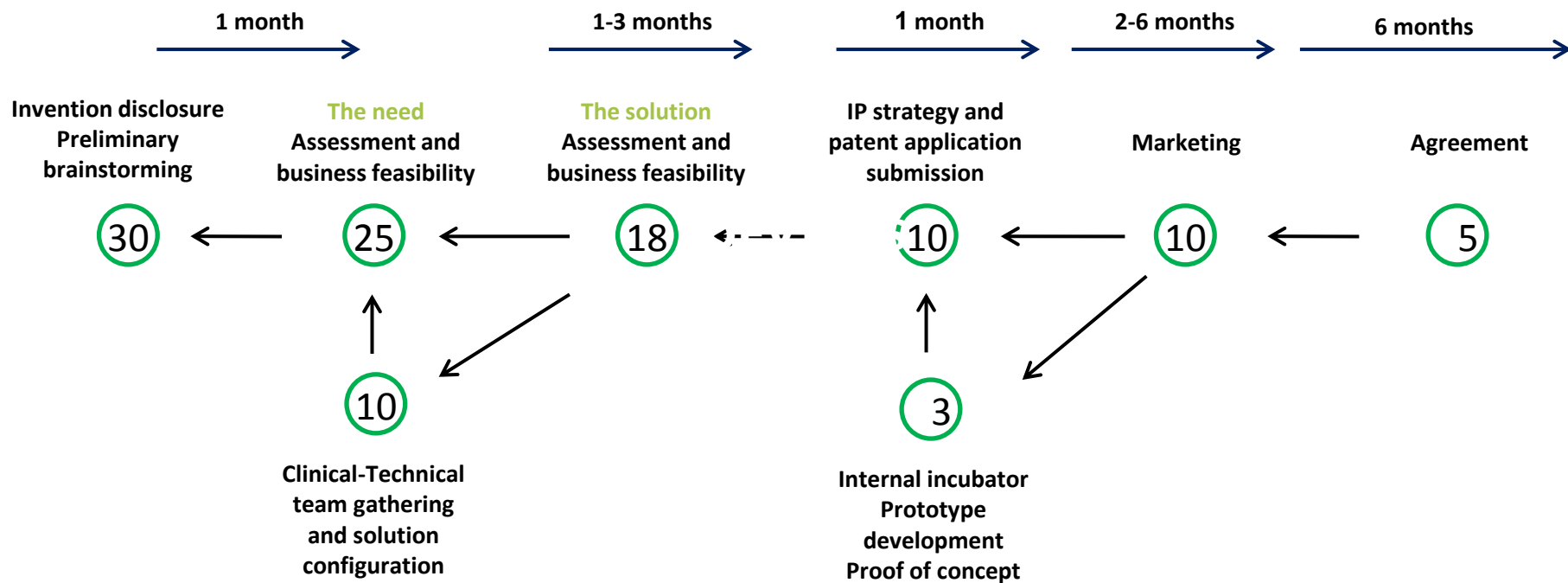
3 months

3 months





TASMC Accelerator – from idea to commercialization





RESEARCH AT TLVMC

IN CONCLUSION:

As a public, government regulated academic medical center we aim to develop cutting edge research and successfully transfer projects to the clinic

We invest in our strength- translational research, aiming to constantly improve and excel at all levels

Our experience shows that collaboration between departments and with other institutes leads to synergy – better projects, more advanced in their development

All research funding is spent on research , our staff is highly motivated and the outcome is improving every year



WWW.TASMC.ORG.IL/RESEARCH MOP@TLVMC.GOV.IL

