Ruolo della SISSA nello sviluppo del trasferimento tecnologico nell'area triestina

Giornata formativa «L'approccio al trasferimento tecnologico: come trasformare un'idea in un prodotto innovativo»

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SISSA in brief

• Scientific center of excellence, with a special statute and funded by the State, within the national and international academic scene, located in Trieste

• The first (1978) University in Italy created to offer PhD courses and entirely focused on post graduate teaching and research



 Three main research areas: Physics, Neuroscience and Mathematics. Both teaching and research are conducted in English





Administrative & Technical Staff

SISSA Positioning

The quality level of the research is further confirmed by the fact that within the competitive field of European funding schemes (ERC) SISSA holds the Top Position among all Italian scientific institutes in terms of research grants obtained (22) in relation to the number of researchers and professors (82);





SISSA has scored first place in Italy, seventh in Europe and among the Top 50 "Young Universities" in the world, according to a new Nature Index report ranking the top 160 universities in the world that are younger than fifty years of age.

SISSA Positioning (II)

SISSA hosts and manages (along with ICTP -International Centre for Theoretical Physics) «Ulysses», one of the largest High Performance Computing (HPC) facilities (100 TeraFlops) in Italy and Europe;





Premise: Why a TTO @SISSA?

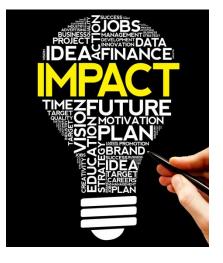
Modern University Missions:

EDUCATION

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- RESEARCH ٠
- **Classical &** Traditional Missions

"University ٠ Third Mission"





Innovation Creation & Knowledge Transfer



Technology Transfer @SISSA: brief history

2007 \rightarrow Technology Transfer Office (Head dr. Maran) was created;

2008 \rightarrow Technology Transfer Commission established;

2016 \rightarrow Specific Director's Delegate (Prof. Rozza) appointed;

Today \rightarrow a Team of 3 people, coordinated directly by the Vice-General Secretary



TTO's main objectives

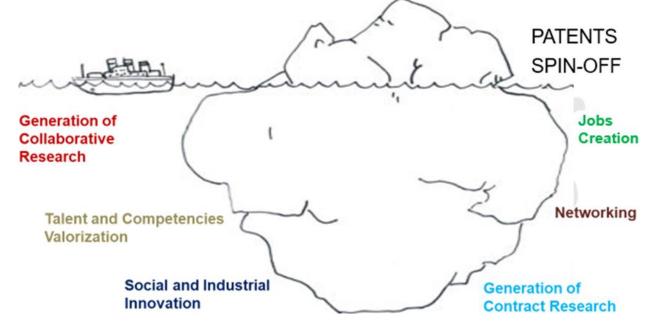
- Promote through specific initiatives, services and support the valorization of Research Results, Know-how, Competencies and Talents (inside out)
- Address the external demand of innovation from industry, end-users, investors, etc. to the internal competencies/know-how and talents (outside in)



SISSA TTO Vision

IRTUT

What's "Technology Transfer" from our point of view? We see it like an iceberg, with some important things clearly visible at the top (notably the creation of Patents and Spin-Offs) and others, maybe even more important, at the bottom..



SISSA Technology Transfer Figures

VIRTUT

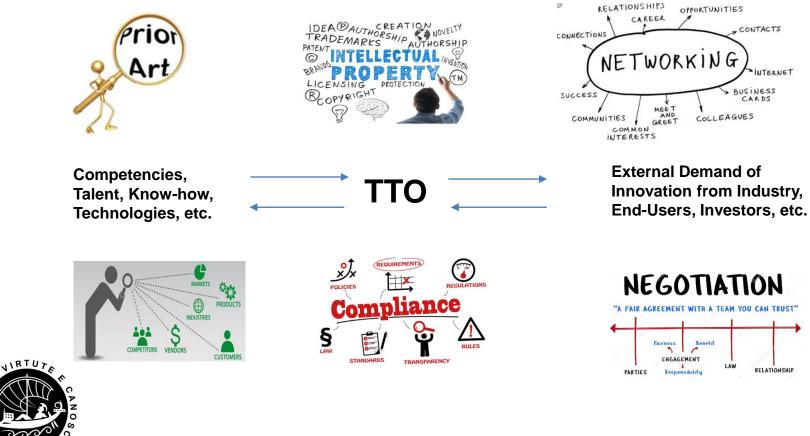
➢ 6 Start-ups e Spin-offs (in the last 10 years):



- 9 Active Patent Families, 7 licensed (commercialization rate >70%)
- Well established collaborations in the field of «Innovation»:



The Process and the Services





Concretely Speaking

PRELIMINARY ASSESSMENT:

- IP Protection (if possible);
- Prior Art & Market Survey;

VALORIZATION SUPPORT:

- IP Protection;
- Prior Art and Market survey;
- Funding opportunities;
- Network matching;
- Talent Valorization & Placement;

Talent and Competencies Valorization

Impact

Social and Industrial Innovation

Licensing & Spin-off

Generation of Collaborative Research

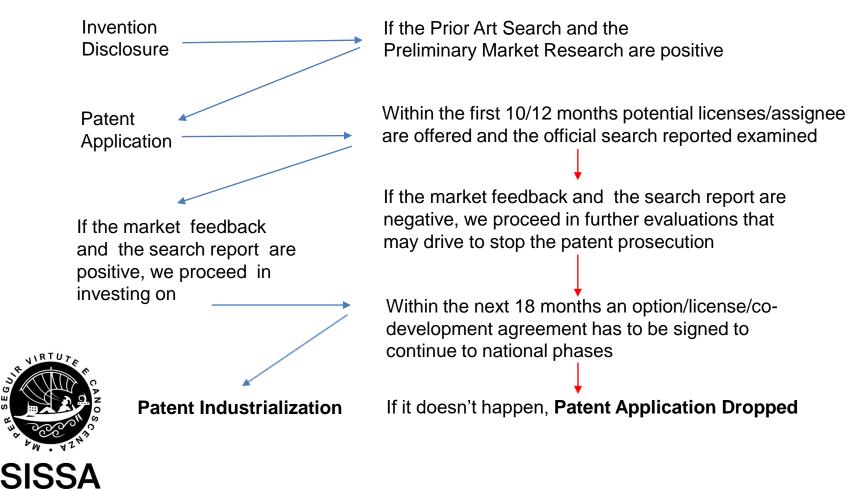
> New Projects Generation of Contract Research

OPPORTUNITY DETECTION:

- Competences;
- Know-how;
- Technologies;
- Talent;



An Example: Patent Application/Prosecution Due Diligence



Advantages of such due diligence

- Pro-active marketing of the technology to get an effective feedback from the market (inside-out);
- Enter in contact with market players (companies/investors/etc.) that can potentially be interested in the scientific excellence/knowhow/competences of the Organization (inside-out)
- Industrial/Market technical point of view on the technology to be addressed to the research group who is developing it (outside-in)



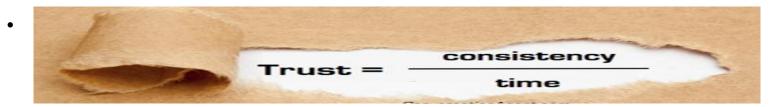
Make an informed decision whether to continue or not to invest on patent prosecution (in other words, to understand if the patent will be an investment or a cost)

TT keywords (from our experience)

- Trust
- People
- Awareness and Approach
- Contamination
- Funding
- Relationship management
- Medium-Long Term Perspective



TT key success factors (from our experience)



- Capacity to make scientific staff (on medium-long term basis) perceive things like IPR, Company driven projects, etc. as opportunities to improve and grow their research activity and not as "obstacles" to it!;
- Capacity to collect and select external innovation needs and address them continuously internally in terms of potential opportunities as well as external technological/societal trends;



Capacity to consolidate and expand the consolidated collaborations with external players;



THANKS FOR YOUR ATTENTION!



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