

Modern Radiation Oncology: multidisciplinarity in the era of OMICS and Al guided oncology 32° RESIDENTIAL COURSE

Al guided olistic approach to cure by art



Disclosures

- Research collaborations incl. funding, consultancy and speaker honoraria
 - Pharma: AstraZeneca, Bayer, MSD, Pfizer, Sofar
 - MedTech: Accuray, Bebig, Elekta, GE, Siemens Healthineers, Varian Medical Systems, ViewRay
- Spin-offs and commercial ventures
 - KBO.com
 - Gemelli Digital Medicine & Health

- Various patents on RTO
- Public research funding
 - H2020 Terminet
 - H2020 iHelp
 - H2020 Re-Sample
 - H2020 Care4Covid

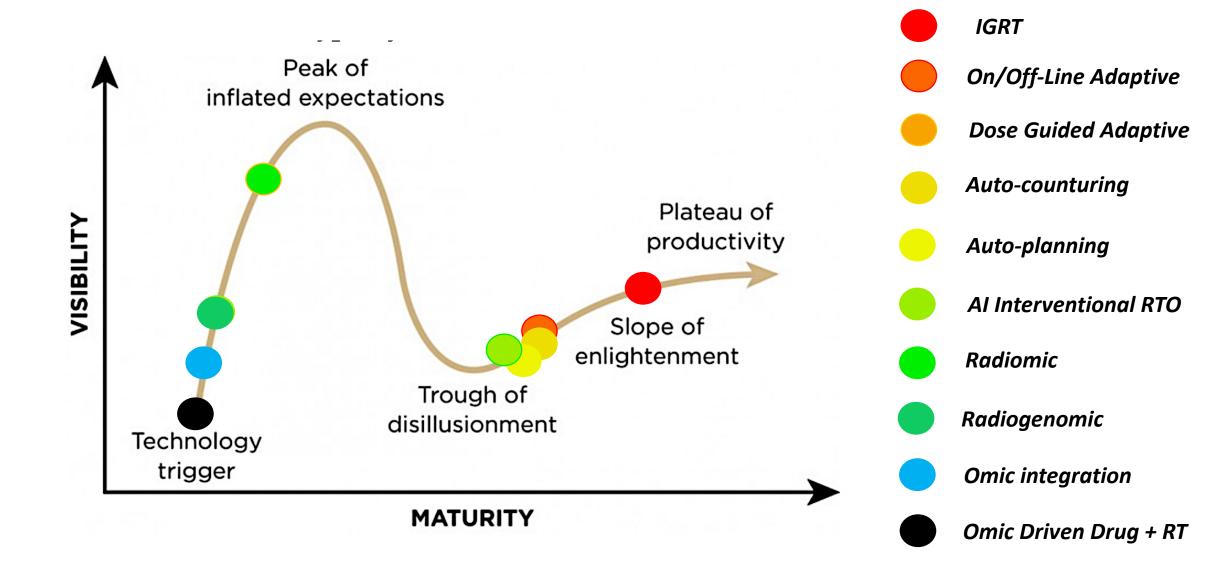
Radiation Oncology: where are we going?

- Image Guided Radiotherapy
- •Al Guided Radiotherapy

Omic Guided Radiotherapy

Humanist Guided Radiotherapy

Innovation Hype: Modern Radiation Oncology



Two dimension of the human should be identified:

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Personalized Medicine

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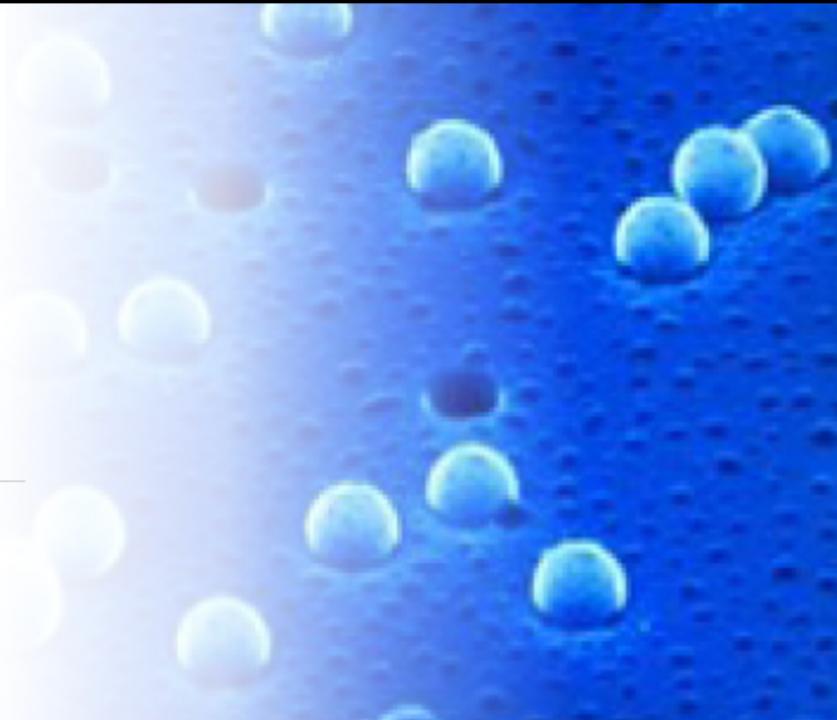
SCIENCE enables you to live and interact with the world

Precision Medicine

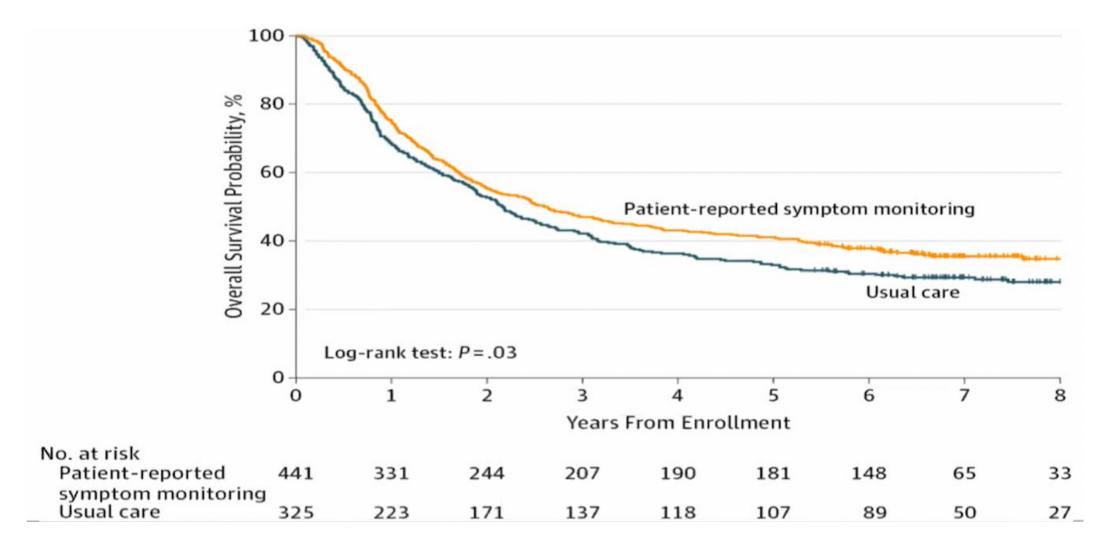
Humanism against or and Science?

Porous border

N.Berdjaev, The meaning of creation, for a justification of the human being, 1915 and following



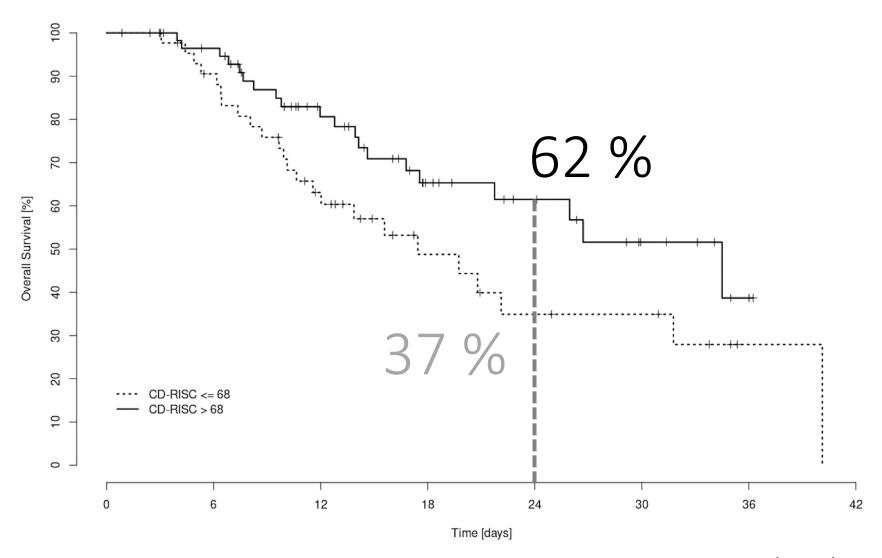
Caring makes us live longer



Spirituality and Resilience in Glioblastoma

- ✓ Spirituality is "a framework that provides people with a sense of ultimate purpose and meaning in life"
- ✓ Resilience is the "ability to withstand adversity and bounce back and grow despite life's downturns"
 - ✓ Multicentric observational protocol
 - ✓ Tests: Spirituality (FACIT-SP12); Resilience (CD-RISC).
 - > 104 patients: 68 male, 36 female, median age 59.
 - Median FUP was 338 days.

Spirituality and Resilience in Glioblastoma











Good practices

... in the millennium of creativity and relationships





riamo simbitto un mostro gianne de

Aurora, 9-year-old

Together we have defeated a giant monster called fear, and to all those who thought we could not do it, we must be here to say "I did it, I beat it!".



desidens vingraziane tutti quelli che mi aintano e mi stanno vicino. Sperio che tutti i bambini malati del mondo possano esseru siculati come me.

Ivan, 13-year-old GRAZIEDI CUOREIIIO

I would like to thank all those who help me and stand by me. I hope that all the sick children in the world can be helped like me. Thank you very much!!!

In spite of everything you made me laugh



Livia, 16-year-old



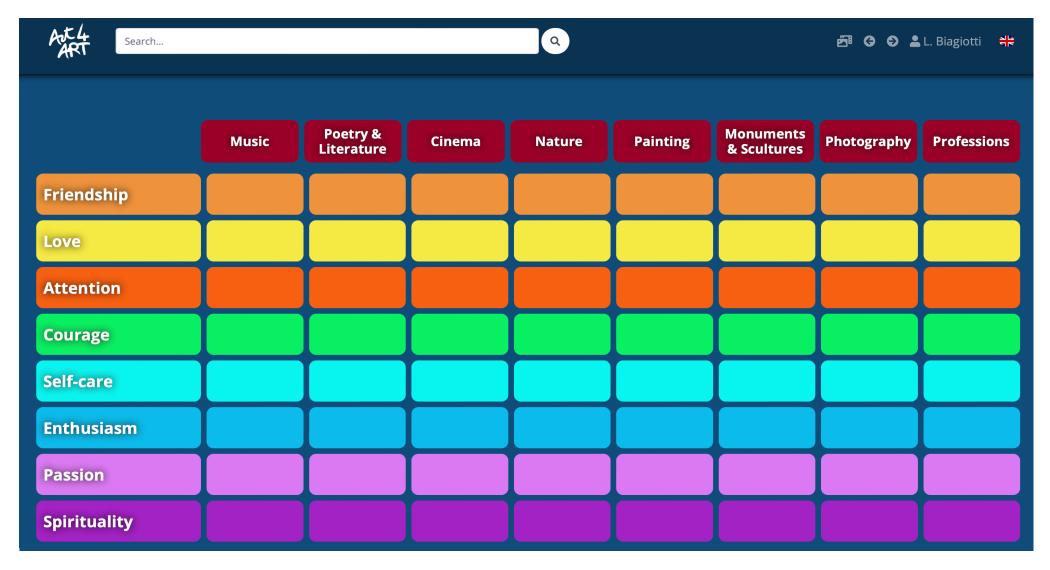


... a good practice













Medley di Arie d'Opera - Fessure di Luce

Tratto dal concerto "Fessure di Luce" di Cristiana Pegoraro per il Gemelli ART

Artista: Cristiana Pegoraro Video



Sinfonia di Praga - Sinfonia n. 38 Cianchettini & Sperati, Londra 1800 Autore: Wolfgang Amadeus Mozart

Audio



Senza Fine - Passione dall'Album "Passione" - 2013

Artista: Andrea Bocelli

Audio



Benedetta Passione - Live in Paris Tratto dall'Album Resta in Ascolto - 2004

Artista: Laura Pausini Video



Amaro è 'o bene - "Una voce una città"

Dall'Album "Una voce una città" - 1980

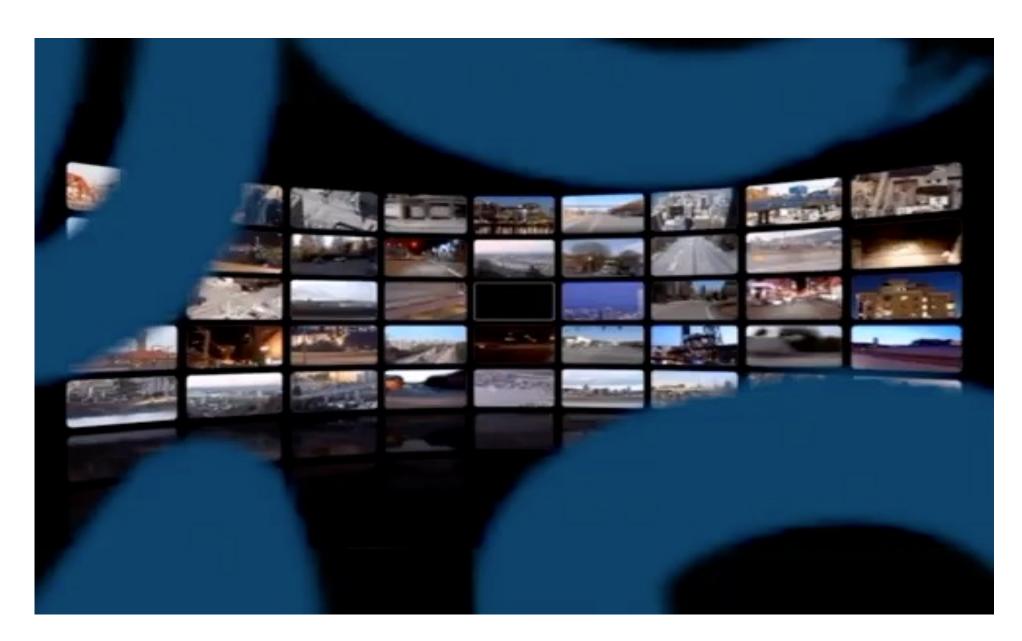
Artista: Mina Audio



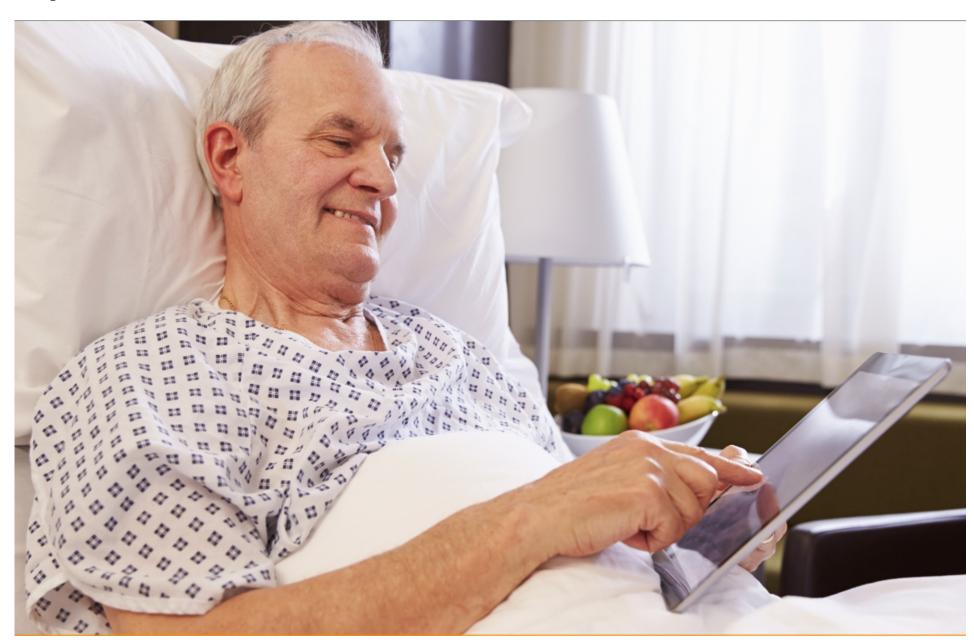
Passione - Orchestra del Teatro Comunale di Bologna Album - 1985

Autore: Luciano Pavarotti Video

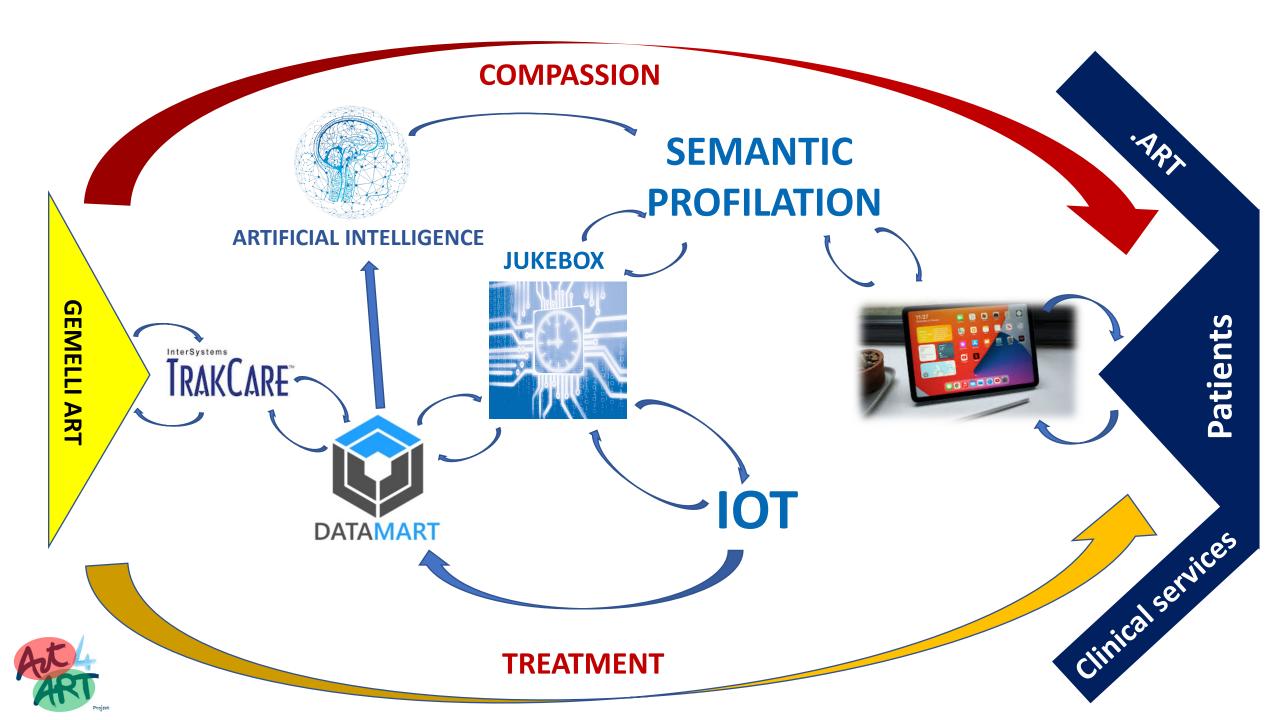














USE CASE

SPIRITUALITY AND RESILIENCE IN GLIOBLASTOMA

Linea di Interiorità 2

Emotivi

- (Positivi):
- Positivo Tranquillità
- Perché? Attenzione
- Bene Serenità
- Dubbio Consapevolezza
- Reazione
- Accompagnare
- Particolare
- Consapevole
- Apprezzare
- Gioia Calore
- Consolare
- Energia
- Resistenza
- Fatica Sorriso
- Intimità
- Paradosso Carica
- Appagamento
- Cortesia
- Gentilezza Disponibilità
- Quiete

Emotivi

- (Negativi): Limite
- Abbattere
- Negativo Stress
- Nervosismo Panico
- Irrequietezza
- Tensione
- Spavento Velocità
- Incertezza
- Fiacco Ansia
- Paura
- Angoscia Stress
- Rassegnazione
- Disagio Sconforto
- Stanchezza Abbandono
- Inquietudine Solitudine Crisi
- Lontananza
- Impotenza Pesante
- Punizione
- Frustrante

Emotivi (Negativi):

- Muro
- Incertezza
- Perplessità Paradosso
- Tristezza
- Preoccupazione
- Agitazione Delusione
- Tempesta
- Terrore Apprensione
- Soggezione Distrazione
- Odio
- Disgusto Noia
- Collera
- Irritazione Rabbia
- Aggressività



Termini...

(Positivi): Ricordo Racconto

di Ricordo

- Storia
- Passato



di Ricordo: (Negativi):

- Nostalgia
- Lacrime
- Ferite



di Bellezza (Positivi):

Bello

- Colore Caldo
- Luce
- Profondità
- Armonia
- Dipingere-Disegnare
- Melodia
- Artista
- Riflesso
- Cielo
- Immenso
- Spazio
- Sguardo
- **Empatia** Compassione





di Bellezza

- (Negativi):
- Brutto
- Colore Freddo Buio
- Confini Fastidio
- Limitato Scarabocchio
- Rumore
- Mostruoso Disapprovazione



di Futuro

- (Positivi): · Percorso-Strada-
- Cammino
- Motivazioni
- Fiducia
- Passerà-Finirà
- Vivere-Vita
- Progettare Affrontare
- Avanti
- Costruire
- Rinascita Futuro
- Novità
- Attesa
- Risalire Volare
- Superare
- Combattere Attesa
- Continuare
- Adattamento Sfida
- Impegno
- Obiettivo Risolvere
- Affidarsi Controllare
- Realizzare Aspettativa

di Futuro (Negativi):

- Fine
- Tempo
- Poco Finito
- Morte



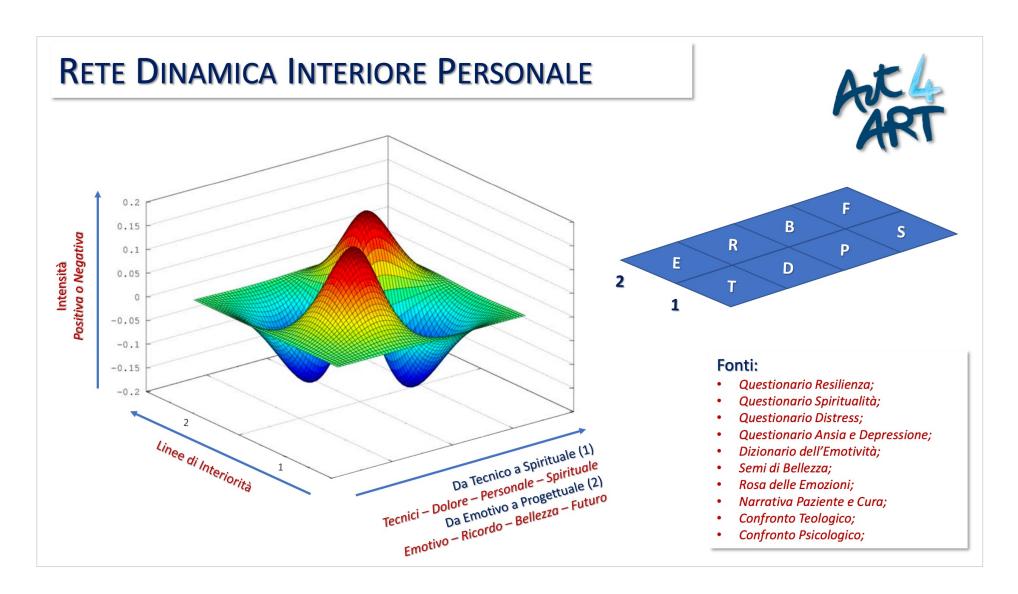






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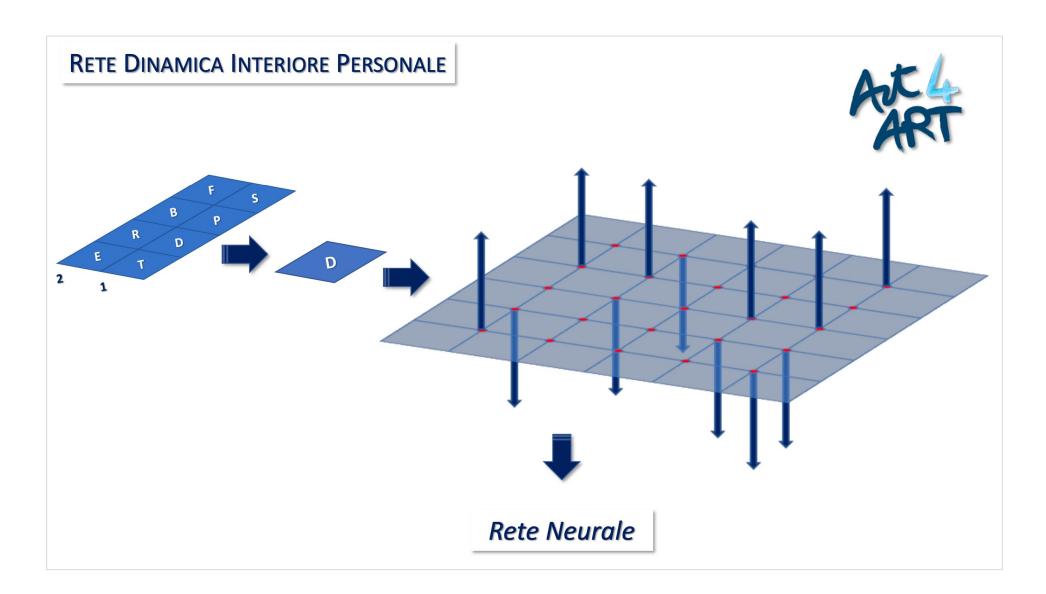






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Molisett











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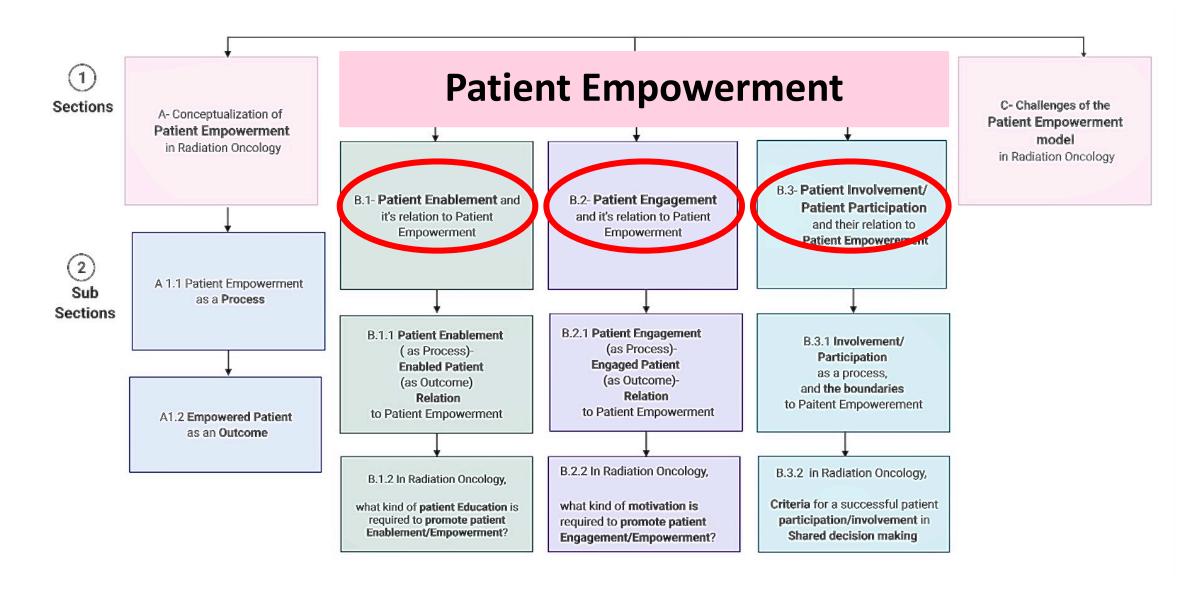
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Participative Medicine



Innovation Hype: Humanism

