

The ERC programmes and preparing a competitive StG, CoG or AdG proposal

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Who am I, what am I doing here?

- Matt Staton – A Bigger Splash Ltd.
- Seen a lot of these – around 400 now

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What I hope to do today

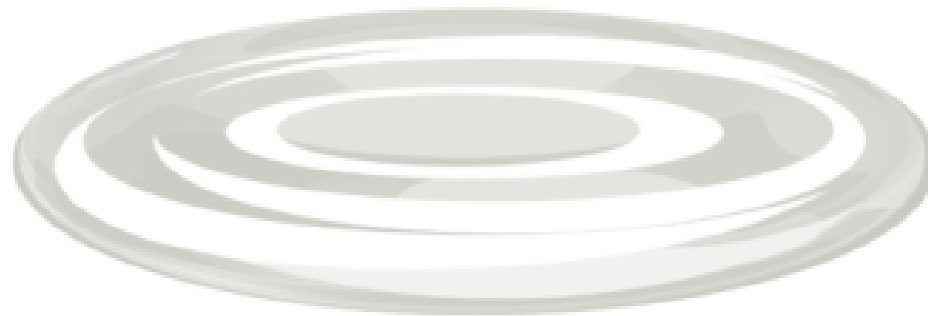
- Describe some important characteristics
- Focus on some core issues for success
- Leave you with capacity to quickly plan project
- Important that we deal with all of your concerns too

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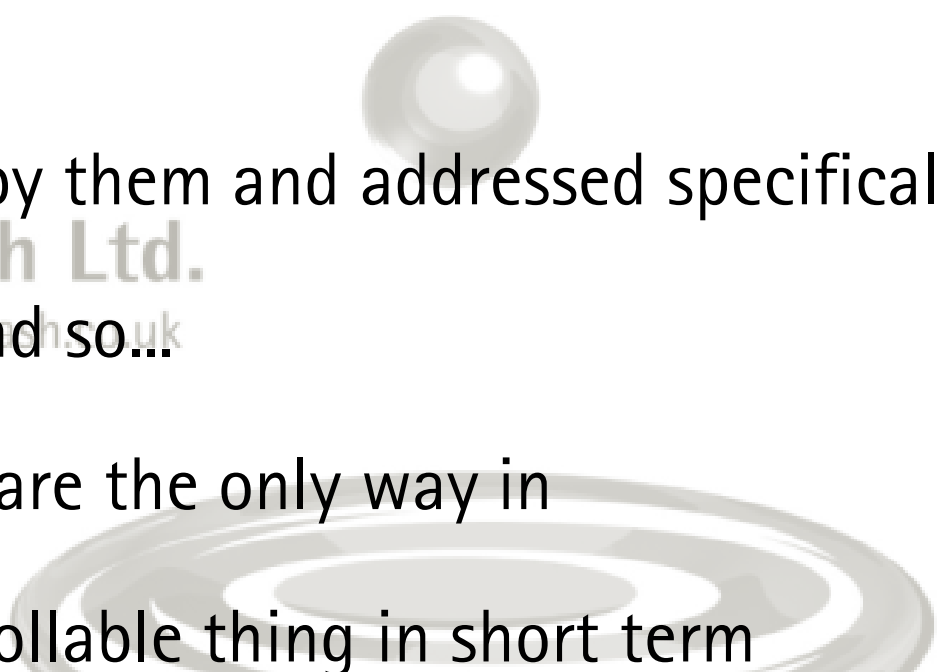
Overall strategy

- No politiking, lobbying, geography or juste retour
- Generous, flexible, lightly managed

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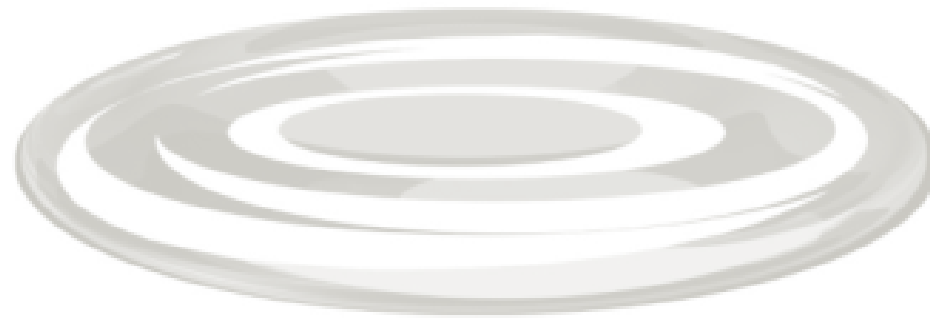
Just to focus on 50% in 50 institutions

- Strong agglomeration effects in research and
 - in EC funding too
 - this is recognised by them and addressed specifically
 - **A Bigger Splash Ltd.**
 - but not in ERC. And so...
 - *Brilliant proposals* are the only way in
 - and the only controllable thing in short term
- 

- Smallish part of H2020 galaxy



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- with a unique ecosystem



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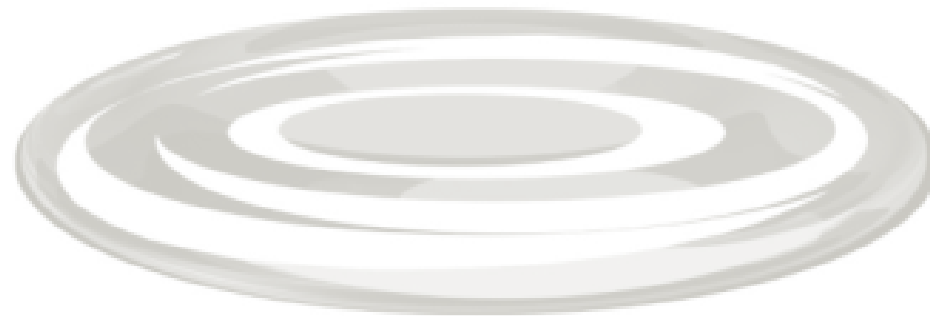
and here quick diversion

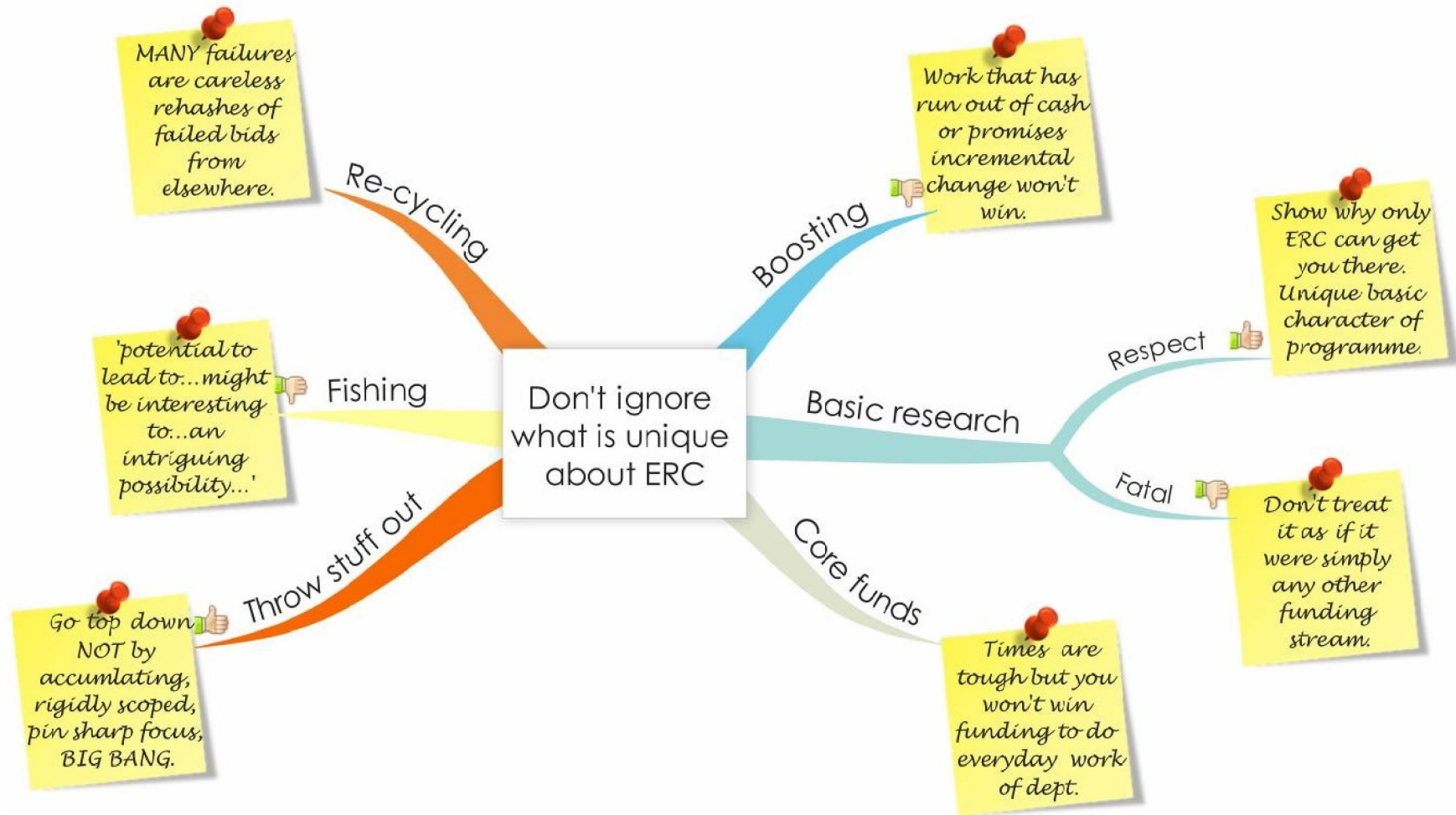
- To look at how people fail to pay respect to the vision
- in lots of quite elaborate ways
- and fail as a result



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Two distinct conceptual 'modes' at play

- Articulating them is major challenge in many cases
- but an important part of the construction work
- and commonly they get quite mixed up
- and also helps us see that the pitch must be phased
- i.e., speaking interestingly to non-experts at front
- phasing into real technical detail as the work develops

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Top parts are different from bottom bits

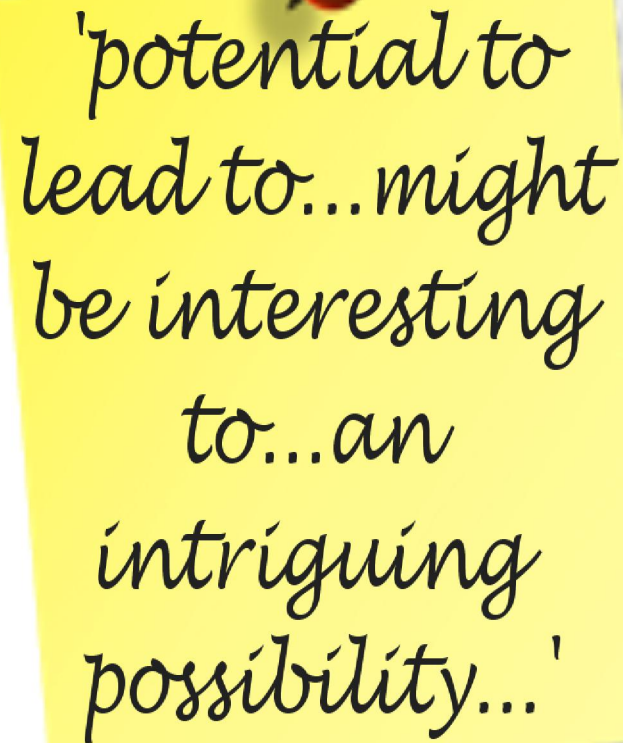
- The first sections are the 'why' questions
 - objectives, breakthroughs, benefits, why better than rest etc.
 - i.e., the stuff they are BUYING
- and this is an *inductive* argument
- i.e., sets out with conclusive statement
- and marshalls 'evidence', grouping ideas
- pointing at a general conclusion that is *probable*
- It is a highly persuasive way if done well

The methods and results are 'simpler'

- They are hypothetical-deductive arguments
- and are 'home territory' for most scientists
- mainly using deductive strategies, tropes and tactics
- it is expert-to-expert style of technical information
- intended to be valid and provide
- guarantee of truth of the conclusions
- ideally it aims at categorical truth

Problems arise...

- When the two get confused
- when methods and processes and results (what/how)
- are put in the selling sections
- and the persuasion stuff is missed out
- There is a change of mode at half way
- must be a flow not a fracture here
- we must group up ideas and sell probabilities
- backed up with methods to provide proof
- *Not an easy balance*



'potential to
lead to... might
be interesting
to... an
intriguing
possibility...'

Fishing

STUFF OUT

Perfectly legitimate way of work

- But increasing rare in competitive public funding
- perhaps rare anywhere, from another age...
- But ERC is basically 'objectives-oriented research'
- driven by ambitious statements of end points
- and so best thought of 'backwards' from there
- as we'll see later.

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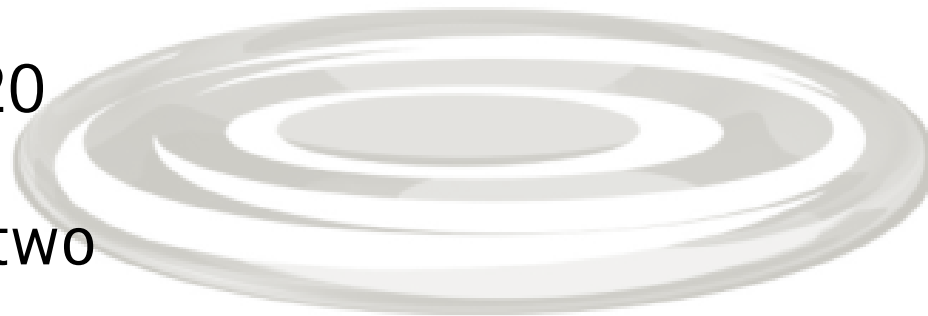


Supporting only particular types of life form

- perhaps only place any 'mode 1' exists at EC
- i.e., motivated by knowledge alone, not application
- and recognisably disciplinary
- 'mode 2', context driven, problem-focused, multi-discip
- dominates in H2020
- don't confuse the two

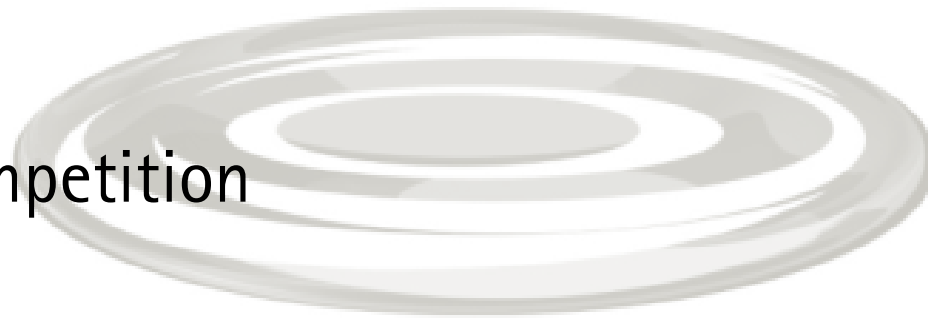
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- PI driven, 'heroic' individuals blazing trail
- Excellent, innovative science in any field
- Chance to dream, a little at least
- Lightly managed
- Fair, if intense, competition

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- Fantastic opportunity and highly prestigious!
- Can be won by any eligible, determined candidate
- with a professionally presented proposal
- well sold good will beat badly sold brilliant
- tough, yes, but perfectly possible!
- from anywhere...including from here, from your seat...
- 'And therefore never send to know for whom the bell tolls; it tolls for thee.'

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Ignore distractions, excuses ,displacements

- It is for the poor, it is only for the rich
- It is only for these institutions or countries, not us
- It is only for the most senior
- It is only the most brilliant who'll win
- I don't understand it
- I don't have the time
- It's fixed
- It's a lottery
- It's a mystery
- It's not for me...



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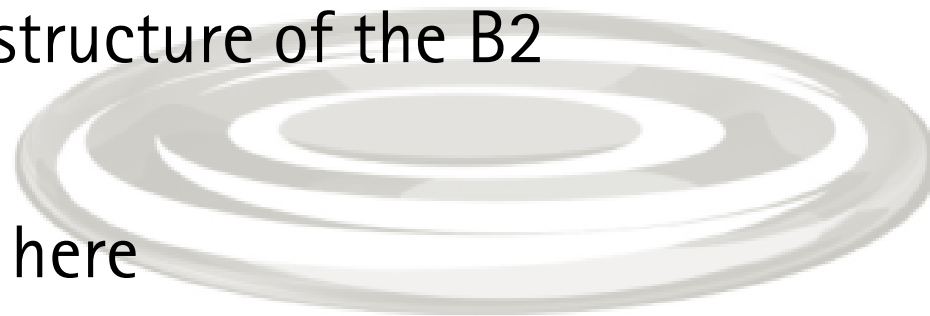
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Develop your objectives-oriented proposal

- With an idea of the right kind
- and as an eligible candidate
- I find this is a very good idea to
- Simply follow the structure of the B2
- So, this we will do here



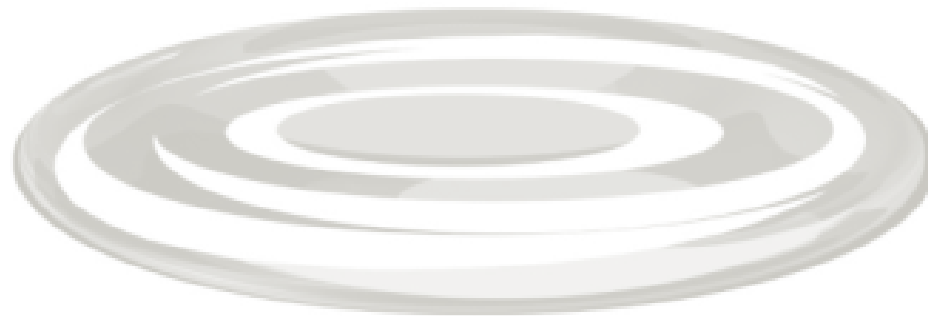
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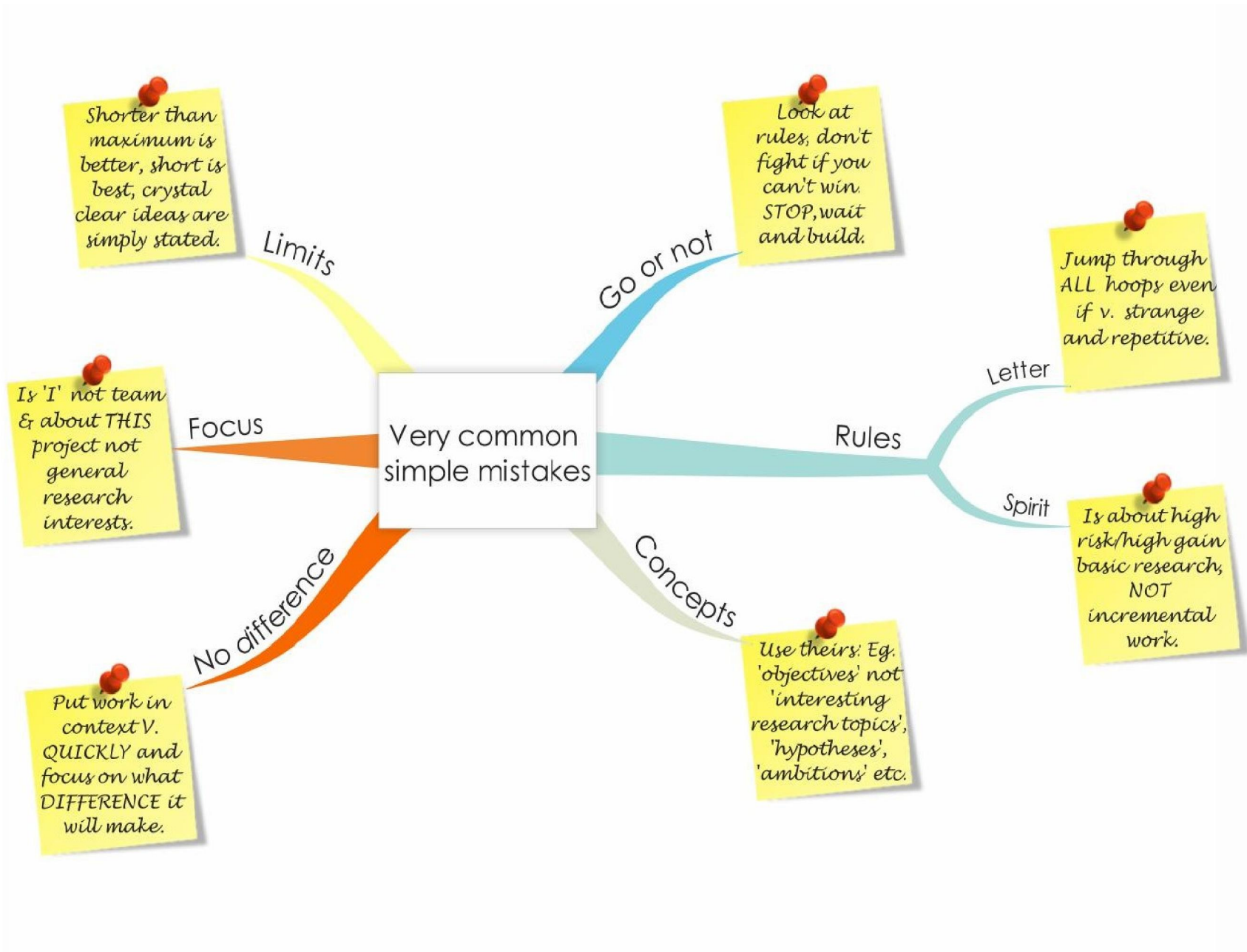


But first another diversion

- These are VERY common mistakes that people make
- So let's set off in the right direction
- and not fall at the first hurdle

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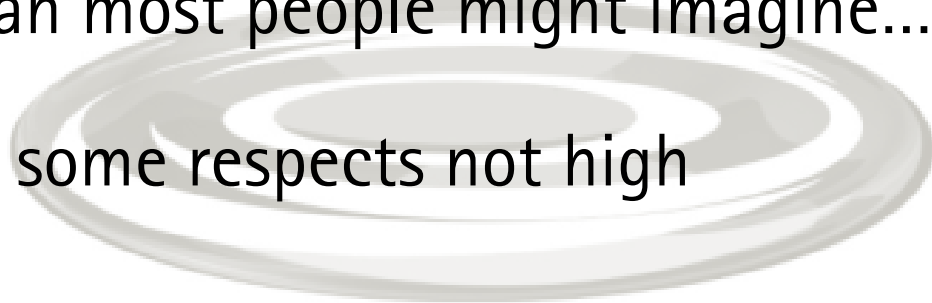


This will take you a long way, in fact

- In the words of a famous art forger
- The level of connoisseurship is not very high
- the key was ticking all the right boxes in expert's mind
- hitting all the right triggers that they expected to find
- 'they go further than most people might imagine...'
- even if standard in some respects not high

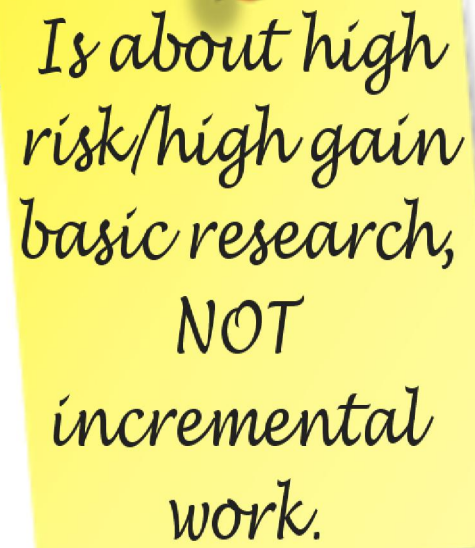
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Rules

Spirit



Is about high
risk/high gain
basic research,
NOT
incremental
work.

Although idea of risk is a bit overstated

- It is part of their (slightly vain) self image
- An ideal that they aspire to rather than operational
- What they want is:
 - highly innovative, ambitious, beyond state-of-art
 - open horizons for resesarch, (society and industry too)
 - well planned, clear objectives, well sold, well managed
 - with buyable researchers
 - clear steps beyond s-o-a *are* risks – big these up!
 - no need to promise a revolution

Focus on the 'why' not the 'what' and 'how'

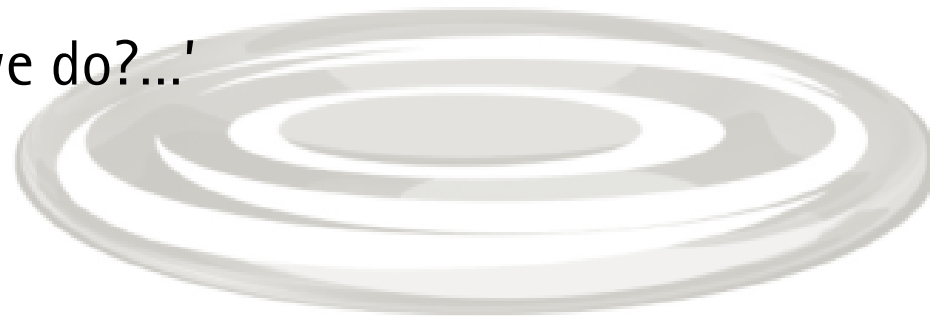
- Easiest to sell the project on its benefits
- and very difficult to compete on results and activities
- this is a key idea that takes up time later
- just hold that in mind for the moment

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Set it up quickly using SCQA

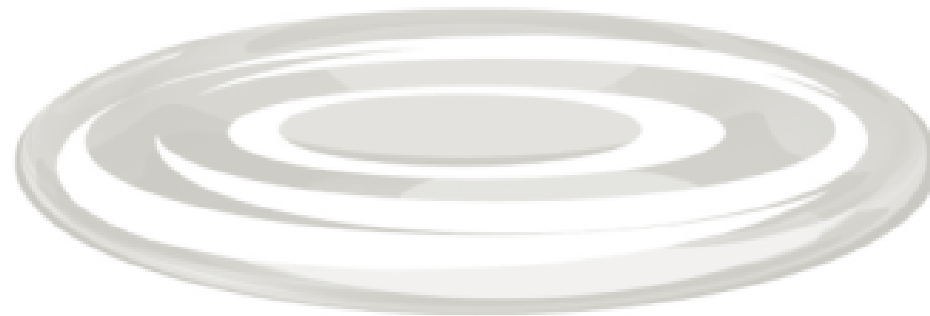
- Situation
 - 'for a long time we have been...'
 - start with something they all know
- Complication
 - 'but the situation has changed recently...'
 - something is in the way of progress, triggers project
- Question
 - 'so, what should we do?...'
- Answer
 - 'we need to...'
 - and this is done at overall level & for each project objective

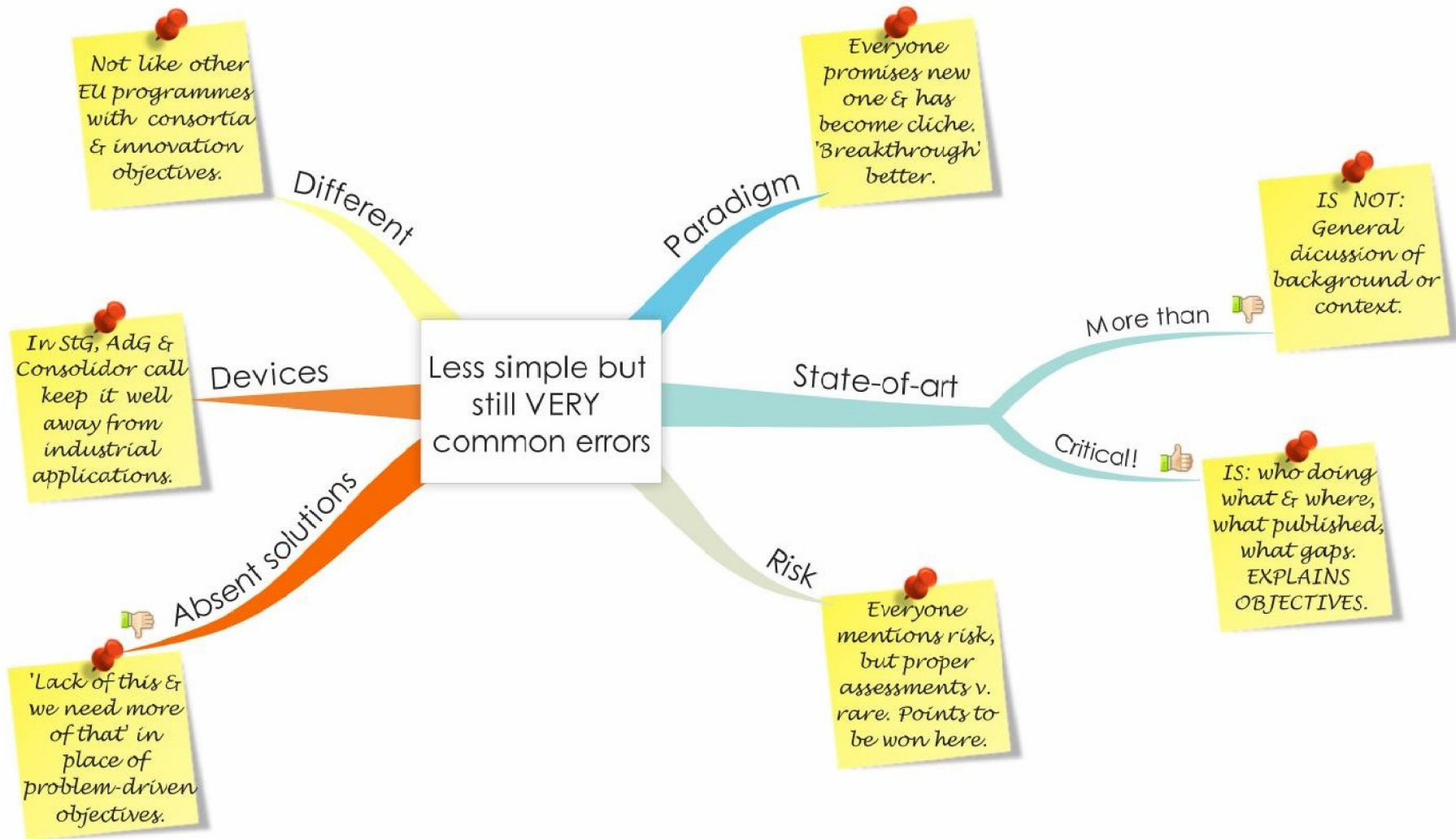


Then there are more creative mistakes...

- Which are still quite common
- also very damaging, in particular in combinations
- and which we need to avoid at all costs

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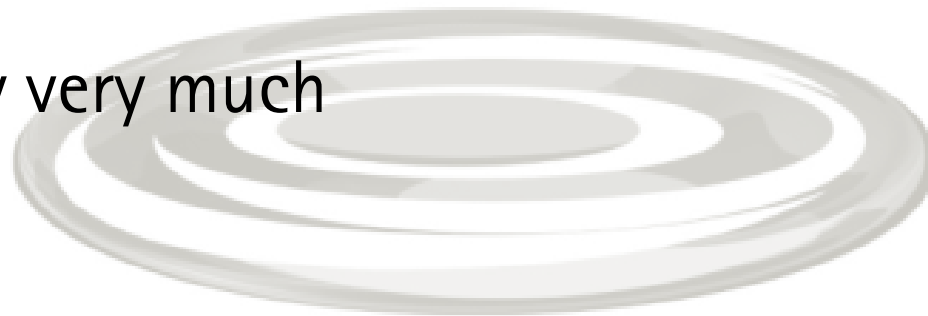




Ok, so once we're in the right frame of mind

- Simply follow the B2 template structure
- its clear, they know it, expecting it and easy reading
- and can then base B2 on B1 very easily
- and expand it a bit
- but not necessarily very much

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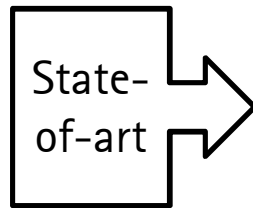


A. State-of-the-art and objectives

- This is the most difficult bit
- but also most important – it is what they are buying
- where I spend most of my time
- and where the biggest mess is generally made
- it is really tough to get this right, but you must
- so, another quick diversion, or two...

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Log Frame



overall objective (greater why)

project objectives (WHY!)

intended results (what)

activities (how)

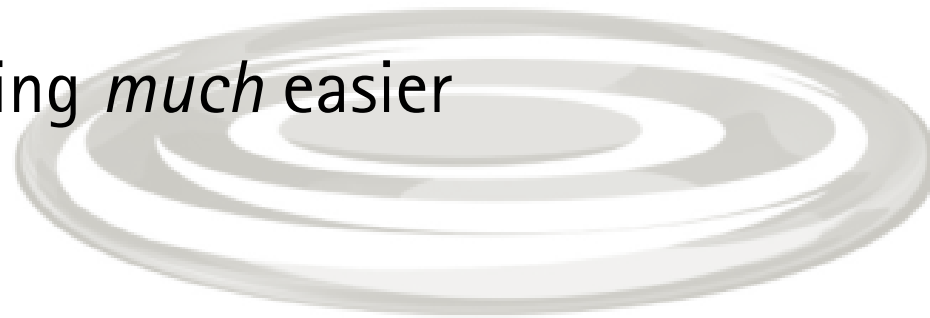
resources (how much)



This is the key to quick accurate planning

- And if there is time and a willing victim or two
- we'll do a short log frame assessment at the end
- as together we can very quickly get all the parts
- in the right layer of the hierarchy
- and make the writing *much* easier

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Bloom's Taxonomy



evaluating (higher order thinking skills)

synthesising

analysing

applying

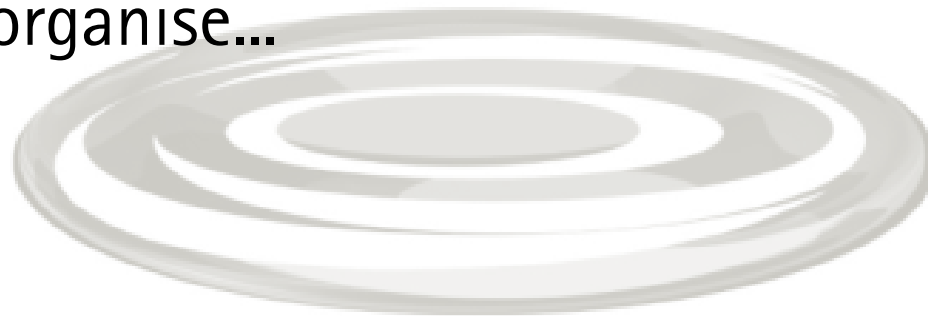
understanding

remembering (lower order)

Some good words at higher level might be...

- Evaluation: Evaluate, judge, recommend, justify, appraise, argue, contrast, choose, defend, discriminate, estimate, grade, predict, prescribe, validate, verify...
- Synthesising: assemble, arrange, combine, compile, create, develop, devise, enhance, facilitate, import, integrate, modify, organise...

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So, on to the writing of this section

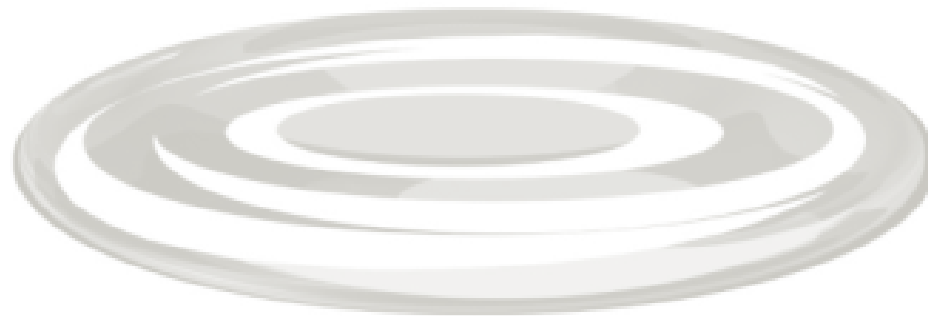
- Split it into overall objective
- to which you'll make a contribution
- i.e., this is the field and the sub-fields and problems
- serves as introduction
- and you'll address big, apparently intractable problem
- and contribute to beneficial change

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And project objectives i.e., the purpose

- The heart of the project
- Exactly what you are going to change
- The differences, effects, sustainable benefits

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You'll be in 'good' company here

- Objectives and Key Results (OKRs) part of way of life
- at Google (1999), LinkedIn, Intel, Oracle, Twitter etc.
- Under company mission and vision statements
- Each person has annual and quarterly OKRs
- Usually 3 with 3 results each with *measures*
- Just beyond reach, not impossible or comfortable
- 70/80% achieved – measured by results attainment

In fact, SMARTT ly described

- Specific
- Measurable
- Achievable
- Relevant
- Realistic
- Time bound

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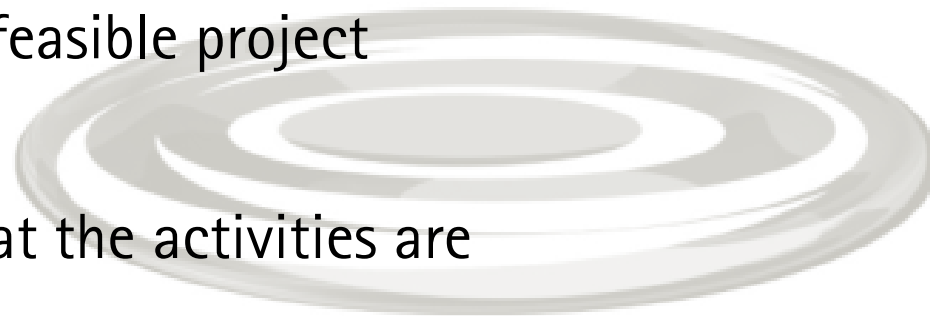
- i.e., easy to understand and know when reached



Benefits of clear objectives

- Disciplines thinking
 - the rest of the work becomes much clearer
- Communicate accurately
 - everyone knows what is important
 - makes it possible to evaluate project
- Establishes indicators
 - shows that it is a feasible project
- Focuses efforts
 - becomes clear what the activities are

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And they should be MECE

- Mutually exclusive and collectively exhaustive
- So the objectives are distinct, don't blur
- and do the whole job intended
- and results that create them are all and only necessary
- i.e., clear, thorough and logical, no overlaps, no gaps
- necessary and sufficient

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Set in the state-of-the-art-key step in logic

- Either
- Lead with project objectives
- right after overall objective/introduction/scene setting
- So, given that these are the big issues
- My objectives are that at the end of the work...



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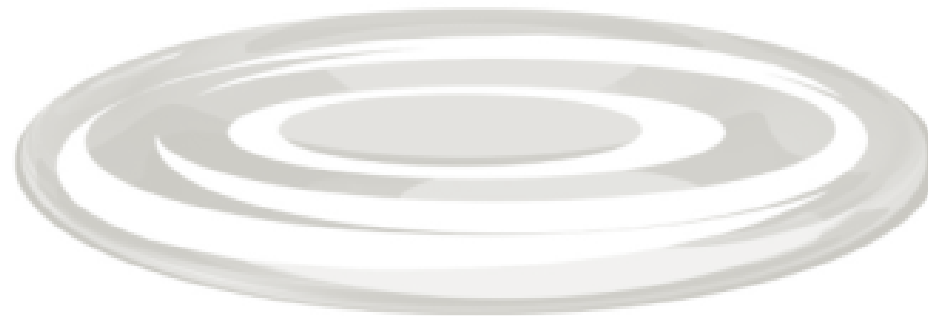


Or

- Set out state-of-the-art in the wider fields
- discussed in overall objective
- and then say that given weaknesses and gaps
- my project objectives are...



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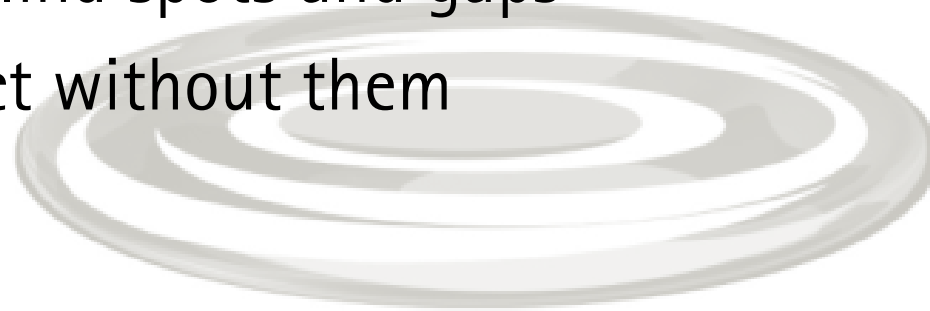


State-of-the-art shows mastery of field

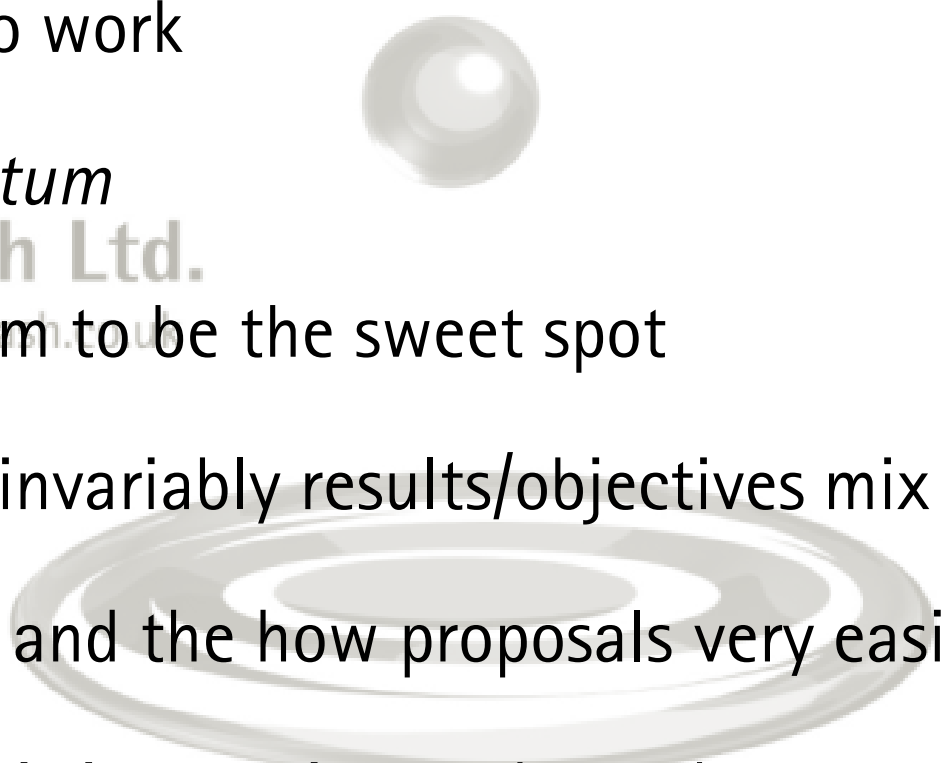
- Names
- Places
- Papers
- Books
- Debates
- and crucially the blind spots and gaps
- you have no project without them

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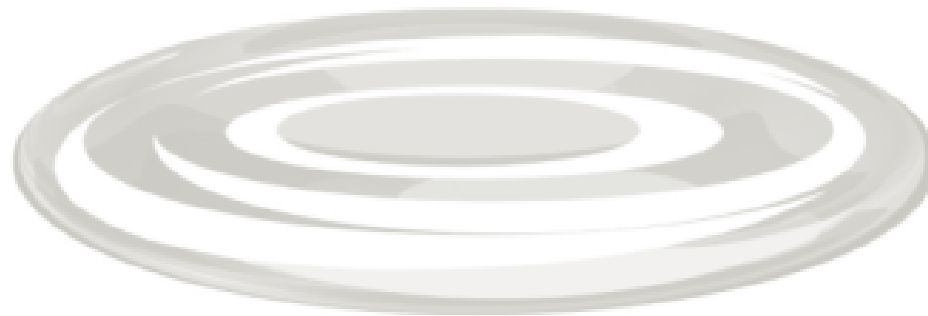
How many project objectives ?

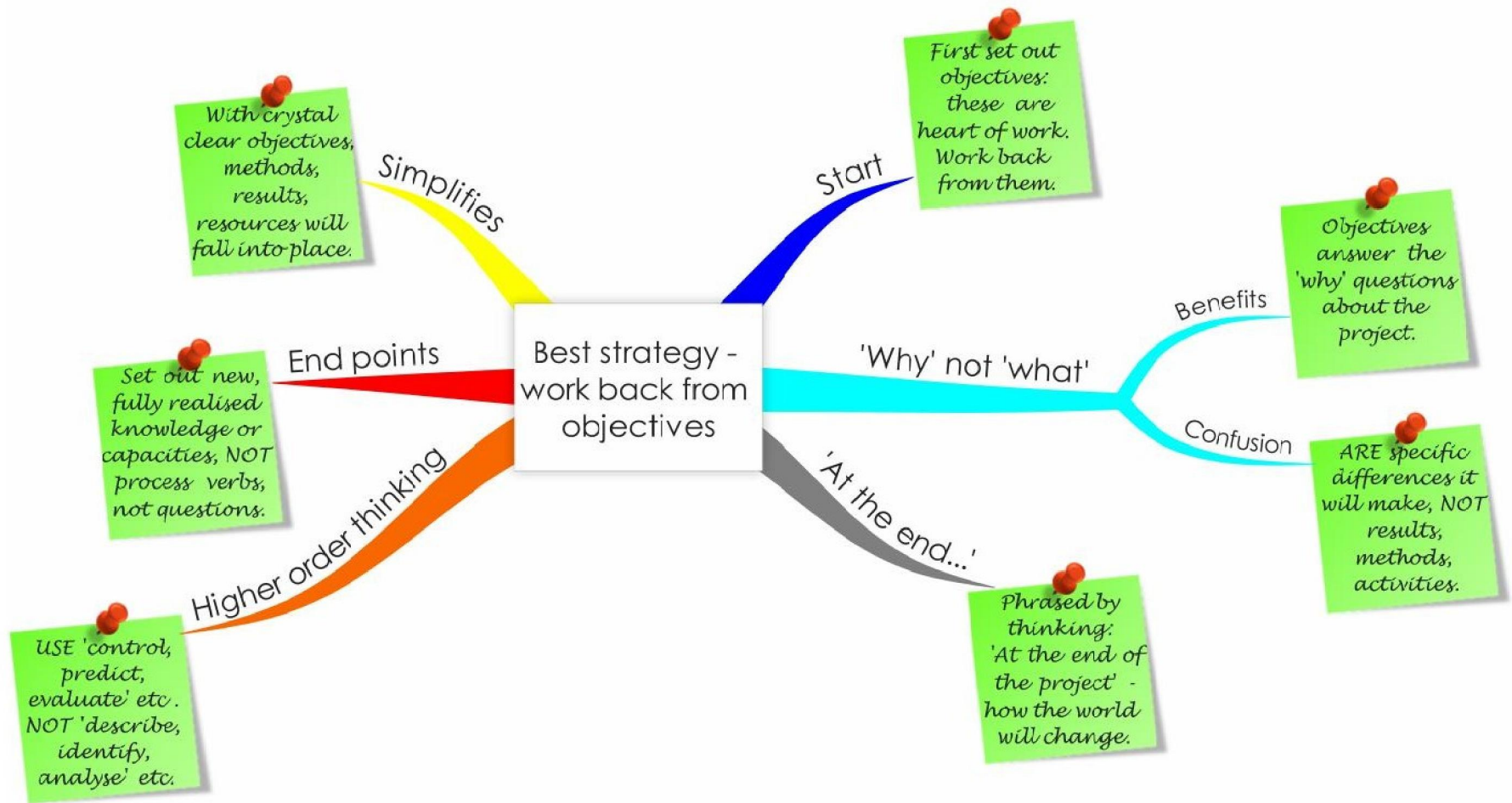
- The brave state one big one
 - Two never seems to work
 - *Omne trium perfectum*
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 - and three does seem to be the sweet spot
 - any more and it is invariably results/objectives mix
 - can't sell the what and the how proposals very easily
 - hope we can see this in practice at the end
- 

Let's review the objectives stuff quickly

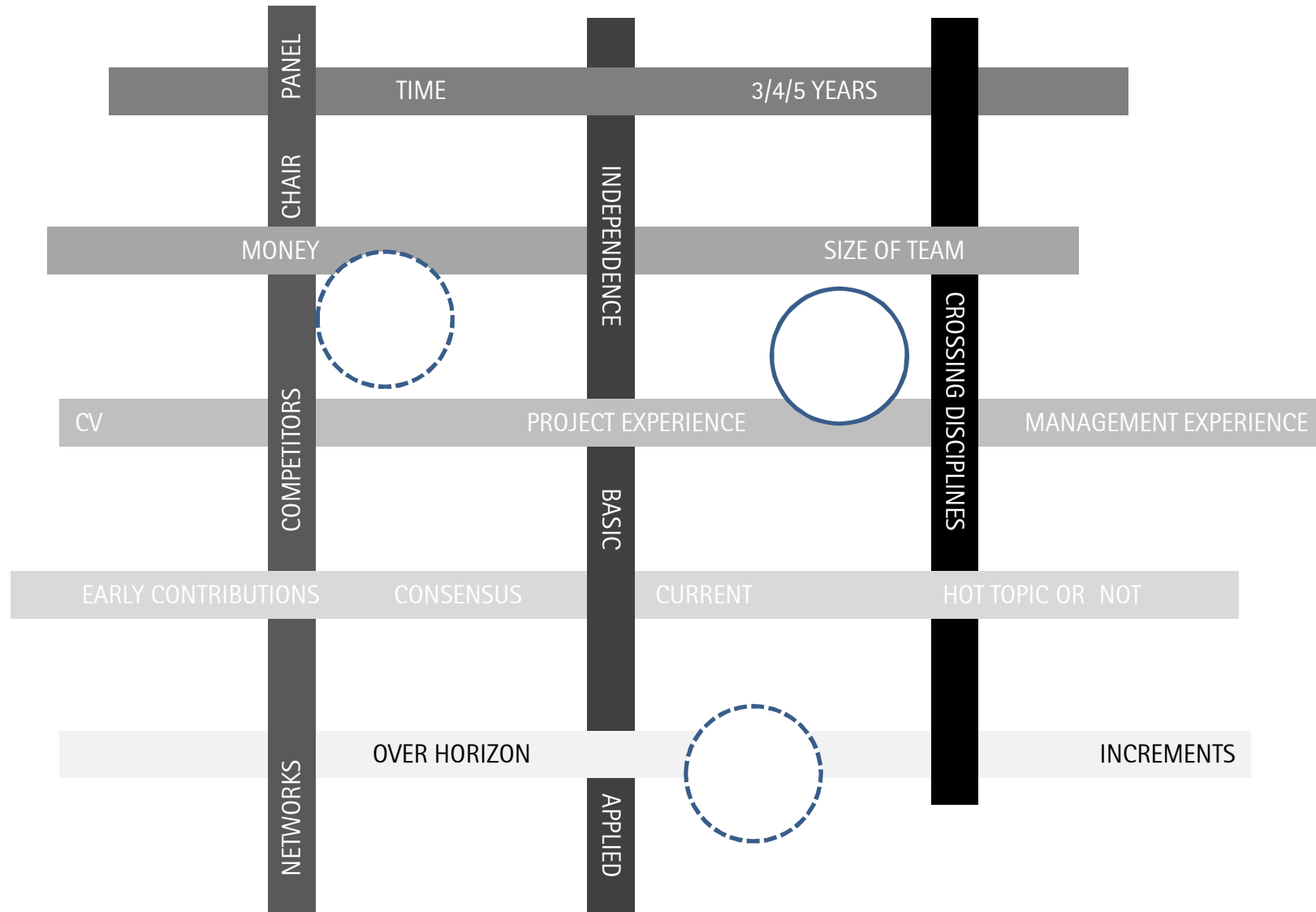
- At it really is the win/lose part of the job
- and the driver of the whole structure of the proposal
- i.e., it puts all the other sections to work
- and draws them in very quickly and logically

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Push it into Goldilocks Zone



You'll note that it is a *very* active process

- consciously designing the most competitive proposal
- might not be the thing you want to do most
- or have been doing
- or thought it might be
- but which is fit for this particular game
- the main tool in use is the hammer

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And then the results are

- all the outputs and deliverables
- and immediate effects
- that all together add up to objective realised
- this is the way that the success evident
- that promises have been delivered on



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and then the impacts

- the beneficial effects, horizons and opportunities
- for research, scholarship and technology
- at the end (objectives)
- in meso future (overall objective) and
- well beyond the duration of project (overall objective)

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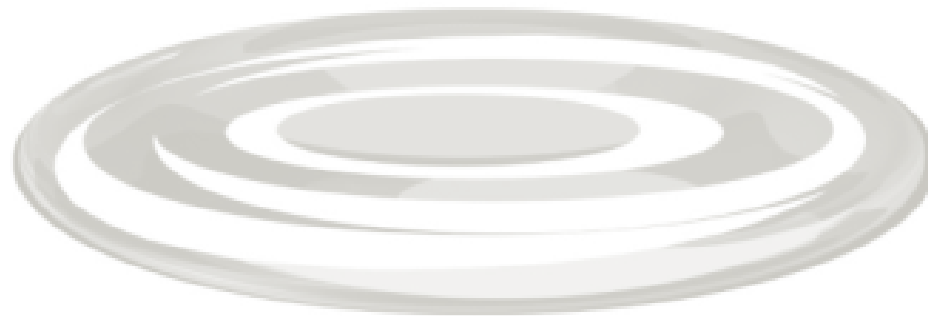
basically

- How your intervention alters the state of the world
- what difference is it going to make
- to direct recipients, larger systems and community
- why is this work interesting and beneficial
- They need to be credibly described
- with logical causal links for attribution
- but in these projects are mostly claims
- and not subject to ex post evaluation

B. Methodology

- Again consider general and specific split
- 'Approach' explains how and why selected
- introduce why these are unconventional
- or beyond state-of-the-art way of reaching objectives

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Then link methods and objectives

- To reach objective 1 I will do this and this and this
- this approach is challenging, unconventional
- and beyond state-of-the-art because xyz
- Describe all and only – law of succinctness
- activities to get to objectives and no more

- This is the bit you know well
- Your daily business

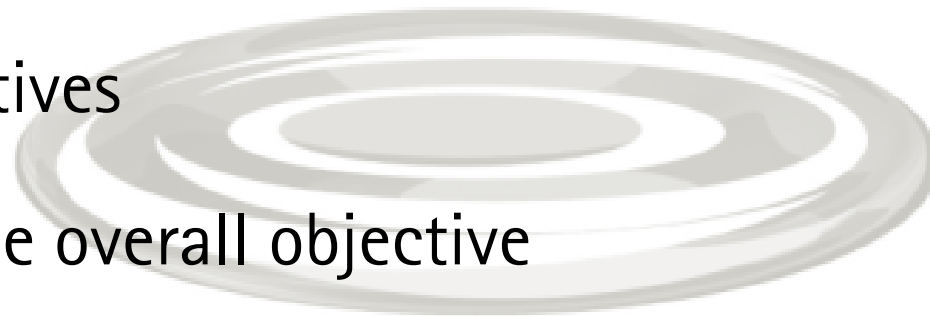


Resources etc.

- If the project is clearly planned
- resources are fairly obvious
- i.e., all and only what you need to do the jobs
- to deliver the results
- to reach the objectives
- to contribute to the overall objective

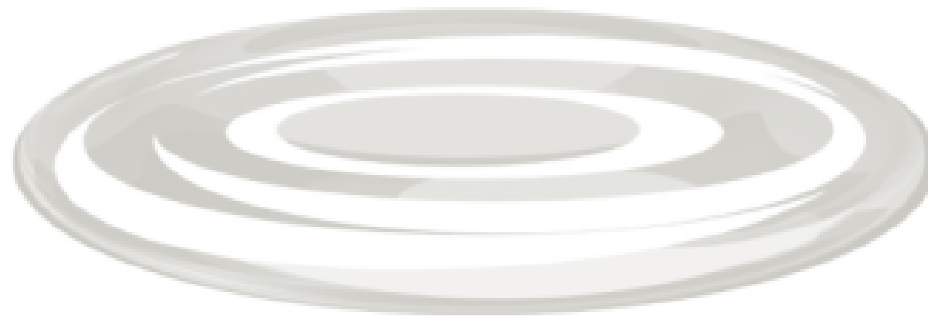


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And even in B1 give them

- Sketch of budget
- Intermediate steps and stages
- Control points/milestones
- So, sketch out project plan in miniature



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And something on risk/gain

- Importance of this is a bit overstated
- Have to try to push to the edges of knowledge
- but show can do it – slight paradox or balancing act
- Beyond state-of-the-art is key idea
- captured in your objectives statements

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Beyond state-of-the-art is always risky

- So you will show that appetite for risk is high (ish)
- but also need to show that it is not out of control
- and so in B1 and certainly in the B2
- give sketch of how risk managed
- is key part of good project plan, all projects

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'The effect of uncertainty on objectives'

Communicate and consult

**Establish
the
context**

What do
we need
to take
into
account?

**Identify
the risks**

What
might
happen?
How, when
and why?

**Analyse
the risks**

What will
this mean
for our
objectives?

**Evaluate
the risks**

Which
risks need
treating
and our
priority
for
attention?

**Treat
the risks**

How
should we
best deal
with
them?

Monitor and review

Normally a million cv questions, but

- In practice, I think, if eligible to play the game
- you can win with a great idea
- excellently sold – how to do that is for later
- It is as it is – wait, build, use other programmes
- Address their evaluation issues in paragraphs of cv



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Finally, think about how scientists 'read'

- Have a 'purpose-laden schema'
 - particularly the evaluation criteria for ERC
- i.e., trying to accomplish a job – find fundables
- process information against this schema
- how it matches what it known
- and judgements about what's new & where field going
- deciding, warily, if this can be incorporated
 - into knowledge
 - and into this particular programme

Have some bad habits

- Highly non-linear, jump around to get headlines/news
 - read backwards, jumping back and forth to find news
- Scanning can be rapid, faster than conscious thought
 - certain words trigger attention, (ERC and) field buzzwords
 - words reported as 'popping out of page' without thinking
- Readers hooked in title and text by
 - names of objects or phenomena – (ERC and field) buzzwords
 - names of approaches and techniques – ways of knowing
 - names of individuals and research groups – links to leaders

You might say that...

- The Rhetoric of Assertion needs to match
- The Rhetoric of Appropriation
- You have to position yourself in the 'rhetorical space'
- At the core of a scientific world picture
- it is an extrapolation of your past
- and a staging area for future expedition
- 2 actors, 2 different soliloquies one same stage
- And taking it forward in a challenging way...simple!

So, in Thinking Fast and Slow terms

- You want to try to keep them in System 1
- i.e., brain's fast, automatic, intuitive approach
- which is often logical and useful
- using association and metaphor to draft reality
- And keep them out of System 2
- i.e., slower, analytical mode where reason dominates
- which is conscious, deliberate but often irrational, lazy
- and willing to accept System 1 answer unless pushed



So, some things to avoid and some to do

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Proposals are technical sales documents!

- Still has air of charlatanism for some
- but can any longer be avoided like it or not
- everything is competed, everyone is involved in EU
- In outright race for cash and resources
- outstanding projects won't sell themselves
- average projects very well pitched
- will beat great ideas sold badly

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Consider 6 dimensions for cumulative effect

- Reciprocation
 - who can I help?
 - better than who can help me get where I want to go?
- Social proof
 - guided by what peers are thinking when uncertain
 - so linking into networks of trusted thought leaders
- Commitment and consistency
 - preference for following pre-existing attitudes, values, action
 - showing how research trajectories point towards this project

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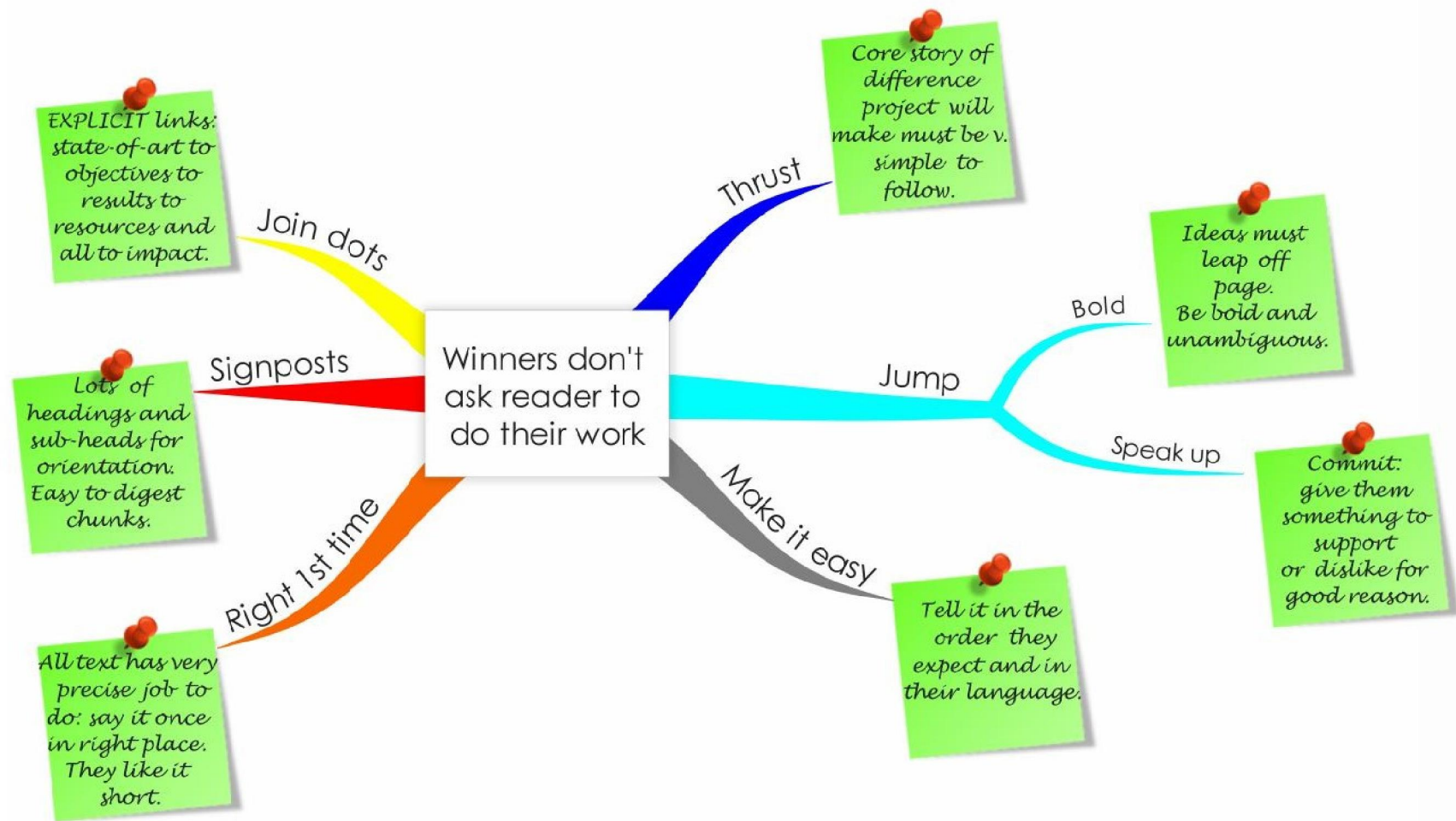
Where possible on all 6 for good effect

- Liking
 - people say 'yes' to those they like
 - in writing this is probably about making easy to evaluate
 - and showing we share concerns of mainstream audience
- Authority
 - people tend to follow lead of experts and authorities
 - link to authorities and state core ideas with authority
- Scarcity
 - the rarer it is the more they'll want it
 - timely and urgent and with you as the person

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Critical to open it up to evaluation

- 'Do not be concerned that you have no position, be concerned that you have what it takes to merit a position. Do not be concerned that no one recognises you, seek that which is worthy of recognition'
- Confucius won't do the job any more!
- Think Machiavelli's 'virtù' – whatever it takes to win.
- Too many remain impossible to evaluate fairly
- and simply make the reader work too hard



finished (rare)

familiar, anticipated form

linear structure

pre-determined meanings

status quo style & content

made, fixed meanings

consumed by the reader

passive, receptive reader

text as closed

shared understanding

decidable, evaluatable

in progress (common)

meanings proliferate

reader active

having to create

makes its own laws

multiple ideas at play

destablises expectations

no narrative structure

reader becomes writer

impossible to evaluate

Work is about moving from 'what' to 'why'

- Clarifying objectives as benefits and end points
- and linking them into the state-of-the-art

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- which is the win/lose part
- (the rest mostly takes care of itself)

