COMPENDIUM OF CREATIVE PROBLEM SOLVING METHODS **METHOD** explore converge approach lead cycle narrow to diverge making sense out of the jumble doing it fine point couragously repeats to plan blow it out reign it in the best Stay Informed Problem **Problem** Generate **Decision** Be The Stay Informed Idea Sandbox best ideas Implement Plan Crafting (monitor) **Definition** Making (monitor) Recognition **Alternatives** Champion situational awareness state the goal define the context in Walt Disney Critic Realistic Dreamer in positive which it is workable Creative "Want To" "How To' "Chance To" and problematic terms Strategy establish time frames and milestones for progress Roger von Artist Judge Warrior **Explorer** Oech "A Kick In The Seat of the Pants" Fact Select, Add, and Idea Solution Gather & Analyze **Finding** Reprocess Ideas Pertinent Data **Finding Finding** Alex Osborn Problem Idea Idea **Evaluation Preparation** Adoption **Definition** Production Development Picking out and Deciding & Thinking Up Ideas Verifying Tentative Pointing Up Implementing Final & Possible Leads Solutions **Problems** Solution Monitor Collect Consequences Information Define Evaluate and John Adair Implement **Objective** Decide Develop **Sense Effects Options** Organize Predict Choose Choose Agree **Focus Predict** Decide **Prioritize** Decide Organize Prioritize Agree Plan Plan Source unknown Experiences, roles, Data are gathered; Many possible Many alternatives Many possible Possible sources of and possibilities for and situations are the situation is statements of criteria are assistance and formulated for problems and responding to the searched for examined from many resistance are Divergent different viewpoints: subproblems are problem statement reviewing and considered; potential messes... openness Phase implementation steps generated are developed and evaluating ideas to experience, information. impressions, feelings, listed are identified exploring opportunities etc are collected **Human Factors** In Innovative Data **Problem** Solution Mess Idea Acceptance **Problem** Finding Finding Finding Finding **Finding Finding** Solving Ideas that seem Several important Most promising Challenge is Most important data A working problem accepted and more promising or are identified and statement is chosen criteria are selected solutions are focused systematic efforts are to evaluate ideas. Convergent and prepared for analyzed interesting are Phase undertaken to selected Criteria are used to action; specific plans Creative Problem Solving: The Basic Course by Scott Isaksen and Donald Treffinger © 1985 are formulated to respond to it. evaluate, strengthen, implement solution and refine ideas. The perfect chair (implement) What kind of chair (scope)? Designers Look at more chairs (research). Designers look for After several rounds of need constraints. How will I use the chair? inspiration. A team of designers will venture into the prototyping and revisions (and Where will it go? These constraints set the field, observing new chair designs, trends, and perhaps more research!), the scope of the problem and the designer inspiration from industries far removed from the process. designer will have a few solid can begin to get creative. At this point, the design team has many ideas. creations from which to choose. Design Scope Research **Prototype** Thinking Implement The drawing board (prototype). With several possible ideas for the chair, the designer will quickly sketch/model each idea. Prototyping the idea makes it tangible, facilitating new ideas, revisions, and progress. Establish destination and Transform the Using the path Creativity surrounding, basic route into **Imagination** techniques used we built. Put Surveying notice what a fully working Building Waymarking Navigating to overcome the ideas to use to Engineering influence the transportation obstacle. get a return. decision or system. problem Brian Clegg / Paul Birch Observe your Orient this data OODA Decide the best surroundings, Decide Observe Orient with previous Act gather path of action Loop experiences information **PDCA** Plan Do Check Act Cycle Most ideas require follow-up research to determine what's logistically possible, Decide on how to Frame practical. Information is this stage. best frame the problem. The **Decision** best people to be **Alternatives Values People** Information Quality involved, and the best process to Values are what your company uses to generate measure what's important. Use these to **Process** alternatives filter out the better alternatives Kevin Hoffberg Having ideas What is the about how to ... and doing Choosing what Inspiring ?WhatIf! Insight issue? make these Ideas **Impact** something with them. **Impact** creates energy... **Opportunities** opportunities Letting it rip! Opportunities? work for you. (1) Specify the outcome, content, sequence, and task of work activities (2) Create clear, direct connections between requestors and suppliers of goods and services Who, what, (3) Eliminate loops, workarounds, and delays when, outcome **Discuss Plans** Create Understand Determine Observe, Changes to take with Affected document, Current Counterplace to get closer to Implementation Identify "A3 Process" quantify ideal situation **Situation** Plan **Parties** measures **Evaluate** Problem or Implement Results Toyota Represented as a diagram. Need **Develop Target** Develop Get Approval **Root Cause** Specific measures listed, expected Why x 5 improvement predicted Follow-Up Plan Analysis State (if needed) specifically and quantitatively A critical step in the learning process of problem-solvers is to verify whether they truly understood the current condition well enough to improve it. Therefore, a follow-up plan becomes a critical step in process improvement to make sure the implementation plan was executed, the target condition realized, and the expected results achieved. You can state the predicted outcome here rather than in the target condition, if you prefer. **METHOD** explore converge narrow to approach lead cycle diverge making sense out of the jumble doing it fine point to plan couragously repeats blow it out reign it in the best ideas Stay Informed **Problem Problem** Stay Informed Generate **Decision** Be The Idea Sandbox Plan Crafting best ideas Implement Champion (monitor) (monitor) Recognition **Definition Alternatives** Making situational awareness Color coding within the various methods is meant to show what matches with the Idea Sandbox process. Updated 1 September, 2011 • Idea Sandbox • Idea-Sandbox.com When steps are stacked the top step would come before those below it.