

# Overview Summary Sheet for iPUT's Coal Mine Game Changer Opportunity

## Q1) What is the Core Enabling Technology behind the iPUT Opportunity?

- A proprietary two mass screen from GK (General Kinematics Corp) in USA. Substantial technical advantages over current brute force designs. It has a centre spline, making it much stronger. Constant bed depth and double retention time activates and screens much more material, more efficiently, using ~ 50% less energy. Retrofits into existing screen locations with minimal mods.
- Up to 6.6m wide x 10m long decks in single, double and triple cascading deck configurations.
- Recent 3.6m x 6.1m GK screen installed at 800t/hr performance guaranteed / 1,000t/hr max; bolt in replacement of a 308t/hr nameplate rejects screen used @ 690t/hr at a major miner CPP.

## Q2) What is iPUT's Evolutionary Step-Change Approach Going to Actually DO?

- Increase Productivity / Throughput by a guaranteed 25% - all indications are much more.
- Extract more value and performance from existing CPP equipment => better product quality.
- Reset mine practices to achieve in-spec product loaded for much lower absorbed cost by tying mining, handling, beneficiation and despatch operations together much more effectively.

## Q3) What is it going to cost / what payback periods are likely from adopting iPUT's Methods?

- Scope is key; one reviewed 10mtpa product CPP was \$70M +/-50% for a 70% output increase.
- Even with significant higher throughput handling upgrades, paybacks expected under 12 mths.

## Q4) What is the Potential Blue Sky Upside?

- Technology is suitable to produce HELE grade low ash coal at current throughputs. After Paris, this is a market maker opportunity. Easy to sell as cheap easy solution to global pressure.
- Use the technology as a watershed to reset mine operations to a true performance orientation.

## Q5) How to best Access iPUT's Evolutionary Technology and Methodologies?

- initial paid conceptual design phase. Cost can be later rolled into upgrade funding contract.
- Off balance sheet, cash flow positive funding options available for main process conversion.
- Mature two-way collaborative partnership approach built on respective strengths to greatly enhance competitive position in the market by aggressive action giving end customers what they want. Faster, better, cheaper. And more profitable at every step. Interested?



New GK 3.6m x 6.1m 800t/hr two mass cascade deck D&R coal screen being commissioned in a major Qld Bowen Basin coal mine, July 2016. The screen consistently performs better than allowed spec of 0.4kg/t magnetite in discharge, from densities of 1.4 up at full flow.