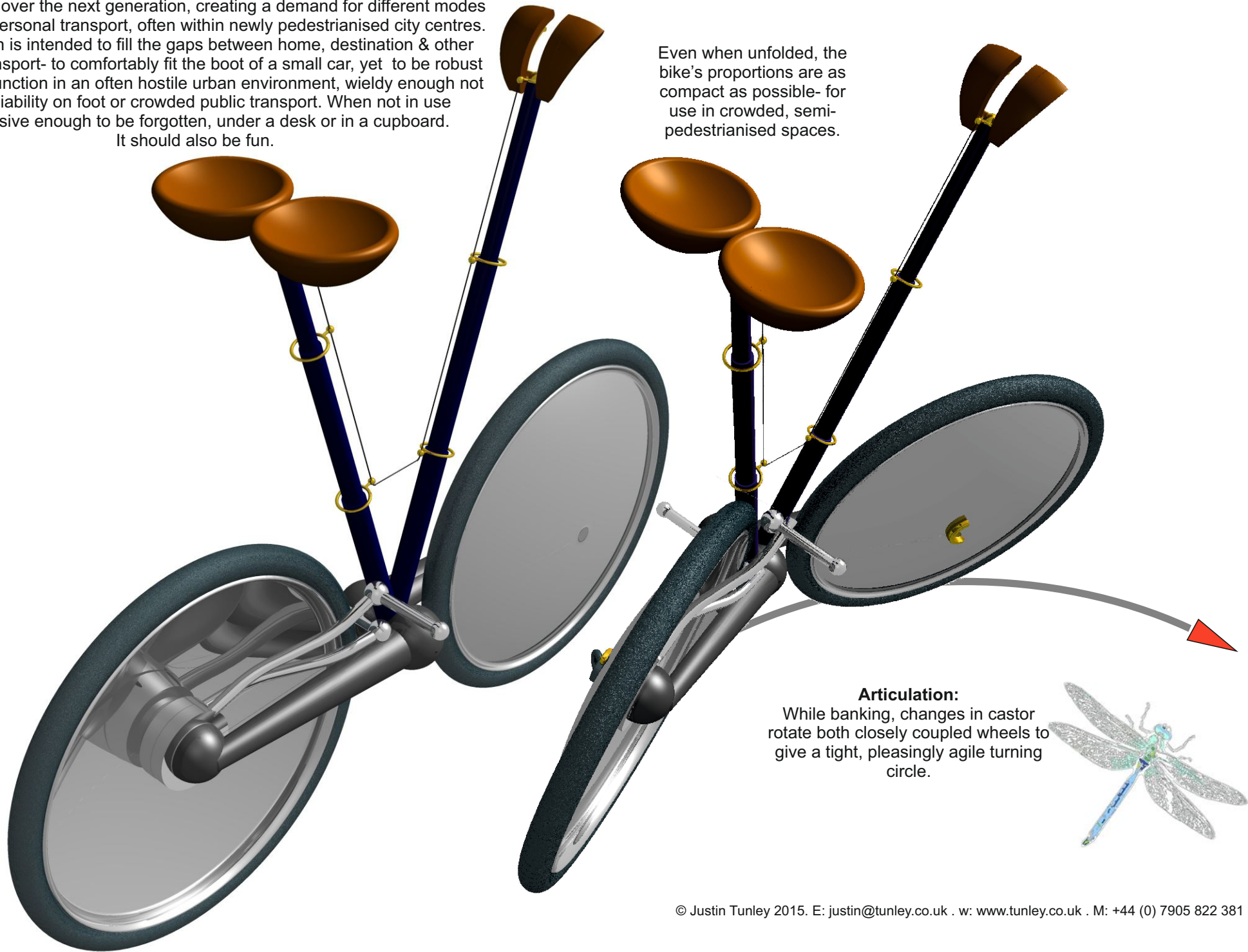


CONCEPT

We are at an interesting crossroad where personal transportation is concerned. The pressure on public infrastructure is predicted to rise dramatically over the next generation, creating a demand for different modes of public & personal transport, often within newly pedestrianised city centres.

This design is intended to fill the gaps between home, destination & other types of transport- to comfortably fit the boot of a small car, yet to be robust enough to function in an often hostile urban environment, wieldy enough not to be a liability on foot or crowded public transport. When not in use unobtrusive enough to be forgotten, under a desk or in a cupboard. It should also be fun.

Even when unfolded, the bike's proportions are as compact as possible- for use in crowded, semi-pedestrianised spaces.



Articulation:

While banking, changes in castor rotate both closely coupled wheels to give a tight, pleasingly agile turning circle.





Commanding riding position for control & visibility by & over traffic

robust 24" rims & long travel suspension to cope with urban environment.

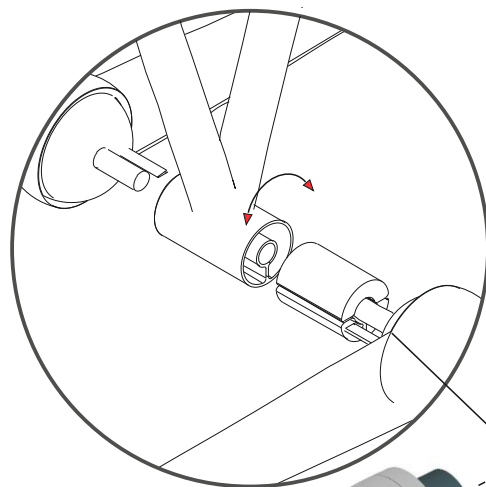
Optional semi-rigid pannier may be used in 'wheeling' position.

Optional, quickly fitted (Remove rapid-release wheel, slide power-pack onto hub-carrier, replace wheel) electrical power pack uses separate battery cells. These may be commercially exchanged or even leased, to ensure responsible disposal without deterring early adopters from going electric. There is the possibility of exchanging discharged & charged cells in transit, to avoid lengthy recharging stops.

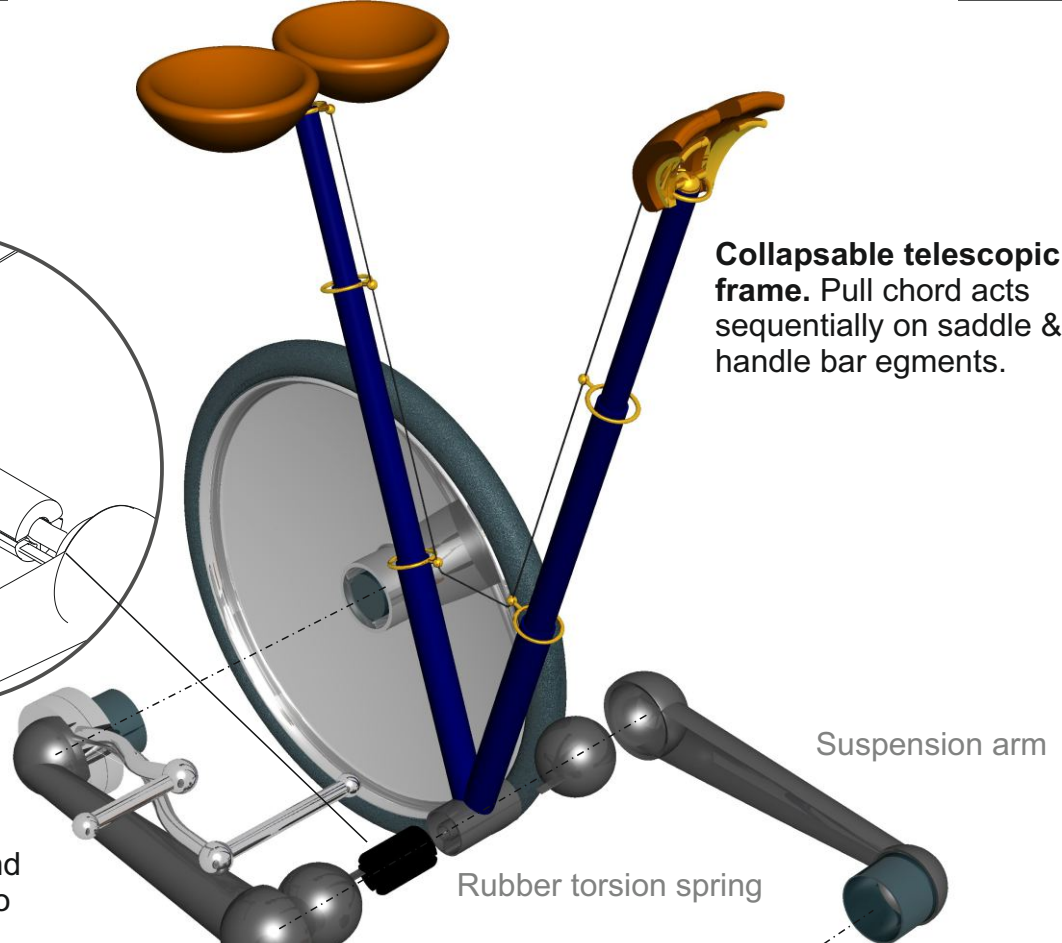
Anti-theft modules may be built into the power packs main body: by way of example an alarm may become armed, GPS tracking switched on & the wheel lock solid, should the owner's mobile phone not be within a given range.

Ultra-short wheelbase for maneuverability.

Self leveling suspension: front & rear suspension arms share a common top spring.



Planetary hub gearbox & wheel carrier.
Peddles rotate around rear hub so as not to interfere with suspension, & to eliminate the chain.



Collapsible telescopic frame. Pull chord acts sequentially on saddle & handle bar emgments.

Suspension arm

Rubber torsion spring

Optional removable power/ battery pack. Individual battery modules may be charged off the bike. The number of cells will reflect typical use to avoid excessive weight. As an anti-theft measure these cannot be unclipped with quick-release wheel in position.

Individual pack

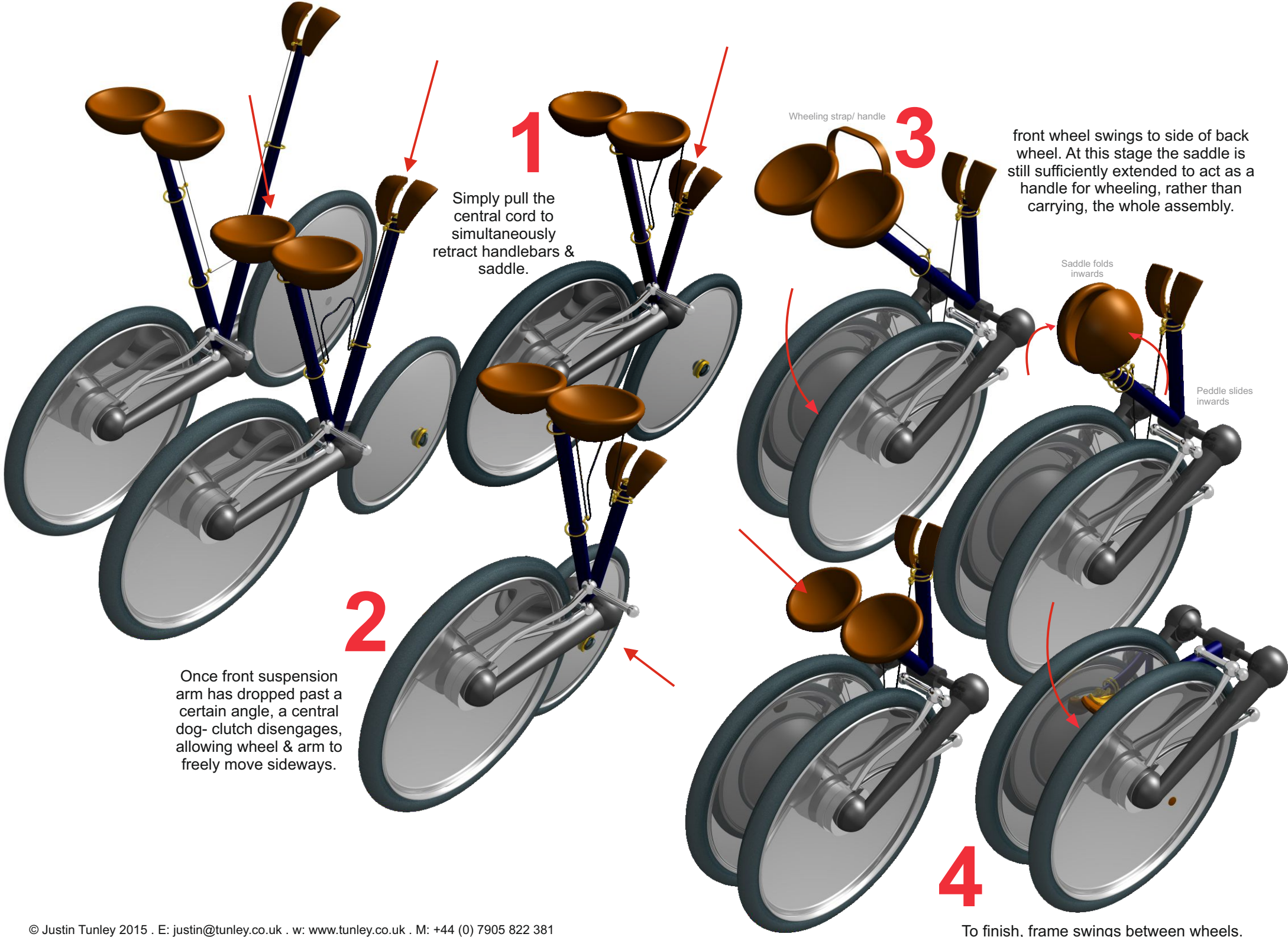
Removeable pressed alloy wheels with quick- release mechanism, where storage is limited.



'D' ring engaged to bayonet release



With anti-theft cable/ chain/ padlock through loop. release mechanism cannot be engaged,



1

Simply pull the central cord to simultaneously retract handlebars & saddle.

2

Once front suspension arm has dropped past a certain angle, a central dog-clutch disengages, allowing wheel & arm to freely move sideways.

3

front wheel swings to side of back wheel. At this stage the saddle is still sufficiently extended to act as a handle for wheeling, rather than carrying, the whole assembly.

Saddle folds inwards

Peddle slides inwards

4

To finish, frame swings between wheels.